

SI-MNH-958e
7-28-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG -- E



DATE May 4
Pg. # 1

time	species	#	dir.	hgt.	remarks	loc.
1415					Underway	
1430					Cleared Harbor	
F 1440	Sooty Tern	6				
1441	Sooty Tern	2				ST 227/12
1455	Wedge-tail	2				W 77/11
F 1459	Noddy	1				Noddy 2/2
	Sooty T	4				CIS 1
1459	Sooty Tern	2				BP 2/2
1509	Noddy Tern	1				RFB 1
1507	Wedge-tail	1				S-P 15/1
F 1510	Sooty Tern	5				SS 2/2
1510	Wedge-tail	1				NS 1
1514	Xmas Is	1				CN 1
1515	Sooty S(?)				Probably; very dark; more direct than Sooty flight	
	Patrol	1			Wings seemed long to body length; flight much more	
1516	C. Noddy	1			Pterodroma like than Bulwer's, however strong wind	
1516	Bulwer's	1			may have caused such flight. No notch in tail	
1516	Wedge-tail	1			noted	
1520	RF/Booby	1			ST	
F 1528	Sooty Tern	200 I				
1528	Wedgetail	65 ± 15				
	Shear-Pet	15 ±			May also be Wedgetails	
1535	Sooty Shear	1+				
1536	Wedge-tail	1				
1536	Sooty Tern	2			separate	
1538	Sooty Tern	1				
1550	Wedge-tail	1				
1552	Wedge-tail	2				
1555	Sooty Tern	2				
1555	Sooty Tern	1				
1556	Wedge-tail	1				
1601	Wedge-tail	1				
1601	Newell's Sh	1				
1602	Sooty Tern	1				
1603	Sooty Tern	1				
1603	Wedge-tail	1				
1604	Sooty Shear	1				

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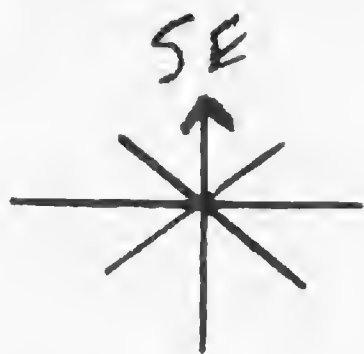


SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG -- E

DATE May 9
Pg. # 2

time	species	#	dir.	hgt.	remarks	loc.
1605	Com Noddy	1				
1605	Sooty Tern	1				
1606	Wedge-tail	2				
1607	C Noddy	1				2N 206/7
1609	C Noddy	1				ST 220/10
1609	Wedge-tail	1				W 244/12
1611	Wedge-tail	2				BP 1
1611	C Noddy	1				RFB 31/4
1613	Sooty Tern	3				LSP 1
1617	Bulwer's P.	1				PT 2/1
1618	Sooty T.	1				BB 1
1619	Wedge-tail	1				SS 1
1621	Wedge-tail	1				202/31
1624	Sooty Tern	1				
1624	Wedge-tail	2				
1627	Wedge-tail	1				
1628	C Noddy	1				
F 1630	Sooty T.	5			} loose traveling flock	
1630	C Noddy	1				
1632	Sooty T.	1				
FF 1636	Sooty T	200±50			Large, loose flock : traveling with ship ; Some feeding by shearwaters + Noddy ; no apparent compact feeding school of fish. Pterodroma probably small ones - Cook or Bonin	
	Sooty Sh	1				
	C Noddy	200±50				
	RFB	6±1				
	Leach's P.	1				
	Wedge-tail	225±75				
	Pterodroma	2+				
1640	Brown Booby	1				
1650	Wedge-tail	2				
1651	Sooty Tern	1				
1652	AFB	1				
F 1656	RFB	10			Feeding, 1 dark RFB	
1657	Wedge-tail	3				
1658	Sooty Tern	4				
F 1708	AFB	14				
1709	Wedge-tail	1				
1711	Sooty Tern	3				
1712	Wedge-tail	3				

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DATE 4 May 65
Pg. # 3

time	species	#	dir.	hgt.	remarks	loc.
1716	wedgetail	1				
1721	Bulwer's Petrel	1				W 72/11 72/21
1728	Greater Frigate	1				BP 3/3
1728	Sooty Tern	1				GF 1
1730	" "	1				ST 11/7
1731	wedge-tails	3				S-P 11/2
1732	Sooty Tern	3				CN 10/2
1733	wedge-tail	2				SS 5/5
1733	" "	2				RFB 10/2
1734	" "	3				BB 1
1734	" "	3				Terns 20/1
1734	" "	1				Pet 1
1734	" "	1				
1735	Sooty Tern	1				437
1735	Shear/Petrel	1				143/34
1736	Sooty Tern	1				
1737	wedge-tail	1				
1737	C. Noddy	3				
1738	Sooty Sh.	1				
1738	wedge t	2				
1738	wedge t	2				
1739	wedge t	2				
1739	wedge t	5			separate	
1739	Sooty sh	4			separate	
1739	Sooty T	2				
FF 1745	wedge-tails	30±5			loose flock, moving & feeding; feeding	
	RFB	9			breaking from main FF at 1755	
	Br Booby	1				
	Sooty T	2				
	Wedge t	6				
FF 1755	wedge t	10 ±5			Tight, compact flock; actively feeding	
	Shear-Pet	10 ±?				
	terns	20±10				
1756	RFB	1			away from FF	
1756	Bulwer's	1				
1759	Bulwer's(?)	1				
1801	wedge-t	1				
1801	wedge t	1				
1801	Bulwer's	1				
1801	C Noddy	1				

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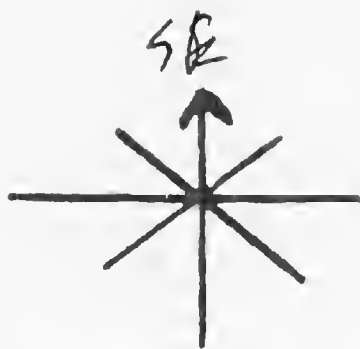
DATE May 9
Pg. # 4

	time	species	#	dir.	hgt.	remarks	loc.
	1802	Wedgetail	2				
	1803	Bulwer's	1			hit on H ₂ O momentarily	
	1803	RFB	1				
F	1806	C Noddy	5			Loose, spread out; probably a F& breaking up.	
		Wedgetail	4+				
		Sooty	6				
	1809	C Noddy	1				
	1812	Bulwers	1				
	1815	"	2				
	1815	Wedgetail	3				
F	1816	"	9				
		C. Noddy	1				
	1816	Bulwers	1				
	1820	"	1			hit ship, E. Lopped on deck	
	1824	"	1				
	1825	C. Noddy	1				
	1825	Wedgetail	2				
	1826	"	1				
	1830	Sooty Tern	2				
	1830	RFB	1			Adult	
	1830	Wedgetail	1				
	1835	"	1				
	1835	RFB	5			Adult } two Hawaii ?	
	1835	"	2			" } Molokai	
	1835	C. Noddy	1				
	1840	Sooty Tern	1	↙			
	1842	Wedgetail	1				
	1842	Bulwers	2	↖		Two Molokai ? Hawaii	
	1846	Wedgetail	1				
	1850	"	1				
	1855	Bulwers	1			Sunset	

W 28/11
BP 10/8
RFB 9/4
CN 9/5
ST 9/3

63/28
330 31
707 31
145 34
1245/124

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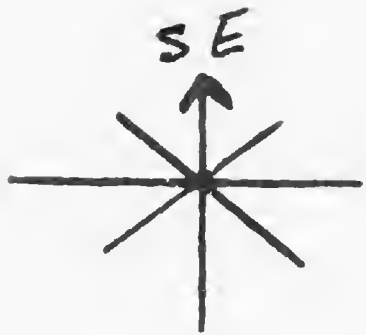
SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG -- E

DATE 5 May 65
Pg. # P1

	time	species	#	dir.	hgt.	remarks	loc.
	0545	Brown Shearwaters					
	0610	wedge-tail	1				
	0618	Sooty Tern	1				W 43/21
	0627	Bulwers Petrel	1				ST 21/6
	0631	Bulwers Petrel	1				BP 8/8
F	0715	Sooty Tern	5			Travelling	SK 2/2
	0717	wedge-tail	1			dark.	PT 1
	0720	Bulwers Petrel	1				F
F	0735	Sooty Tern	5			Travelling	C-B 2/1
	0737	wedge-tail	1				CN 1
	0738	Bulwers Petrel	1				SS 4/3
	0740	wedge-tail	2				9FP 1
	0741	Bulwers Petrel	1				
	0747	Skua	1			Sitting on water	83/41
	0750	wedge-tail	1				
	0751	wedge-tail	1				
	0752	Sooty Tern	4				
	0753	wedge-tails	4				
	0753	Skua	1			- chasing wedge-tails - probably same one as 0747	
	0754	wedge-tails	5			3 different observations.	
	0754	Sooty Shear	1				
	0756	Sooty Shear	1				
	0759	Lrg. Pterodroma	1			Very likely a Dark-rumped Petrel.	
	0804	wedge-tail	2			seper abe	
FF	0808	wedge-tail	10±2			Compact flock tight banking & but little dabbling on H2O	
		Cook/Bonin	2				
	0809	wedge-tail	1				
	0811	E. Noddy	1				
	0816	Sooty Tern	4				
	0821	Bulwers	1				
	0824	wedge-tail	1				
	0831	Bulwer's	1				
	0836	wedge-tail	2				
	0840	Bulwers	1				
	0841	wedge-tail	2				
	0843	"	2				
	0845	"	2				
	0846	"	2				
	0850	"	2				
	0850	Sooty Tern	2				
	0851	wedge-tail	1				
	0852	Sooty Shear	2	N			
	0853	wedge-tail	1				
		Juan Fernandez					

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DATE 5 May 1965
Pg. # 2

time	species	#	dir.	hgt.	remarks	loc.
0905	Wedgetail	1				
0909	"	1				U 33/12
0912	Newells	1				NS 7/4
0915	"	1				ST 87/7
0915	Sooty Tern	3				9 3/3
0915	Wedgetail	2			appeared	Bird 1
0925	Jaeger Sooty Tern	1			Small, swift flying	BP 4/10
0925	Bird	1			Frigate?	PT 1
0931	Jaeger (?)	1				FT 2
0932	Bulwer's	1				LSP 1
0936	"	1				LA 1
0937	Wedgetail	1				148/39
0937	"	1				
0941	Bulwers	1			appeared	
0945	Jaeger	1			Small, rapid flying	Saw some round-stub tail proj - Pannan?
0946	Jaeger Pterodroma	1			Possibly Dark rump - brown back, thin black leading edge to underwing	Pan?
0947	Wedgetail	1				
0947	"	1				
0953	"	2				
0955	Sooty Tern	2				
1000	Bulwers	1				
1002	Wedgetail	1				
1003	"	1				
1004	Bulwers	1				
1013	Sooty Tern	2				
1015	Sooty Tern	1				
1042	Bulwer's Petrel	1				
1043	Sooty Tern	1				
1051	Bulwer's	1				
EF 1100	Sooty Tern	75	±10		Tight flock, breaking up as ship drove thru it; (red details feeding actively, sitting on water, dropping into + dabbling on K20. No fish jumping. Terns not too active in feeding. 1 Sooty Tern collected - Doyle Huston.	
	Wedgetail	20	±4			
	Fairy Tern	2				
	Newell's	4				
1122	Newell's	1				
1131	Leach's P.	1				
1131	Bulwer's P	1				
1145	Bulwer's P	1				
1145	Bulwer's P	1				
1236	Sooty Tern	3				
1244	Wedgetail	1				
1305	Bulwer's	2			Bulwers	
1308	Laysan Alb	1				

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Pg. # 3

time	species	#	dir.	hgt.	remarks	loc.
1325	Sooty Shear	1	↗			
1325	Bulwer	1				
1325	Wedgetail	1				
1328	Leach's	1				
1329	"	1				
1331	"	1				
1332	Wedgetail	1				
1338	Dark rump	1			Nearly uniform med. brown back & wings, slightly darker n., heavy black leading edge to underwing, dark side of head Probably Leach's	
1340	Petrel	1				
1343	Sooty Tern	2				
1410	Bulwer	1				
1412	Pterodroma	1				
1428	Bulwer	1				
1436	Leach's ST	1				
1520	Sooty Tern	4				
1530	Bulwer's	1				SS 3/3
1531	Bulwer's	1				BP 5/5
1555	Sooty Shear	1	↗			W 2/2
1615	Sooty Tern	1				LSP 4/4
1700	Pomarine	1				DR 1
1710	Bird	1				Pet 1
1808	Sooty Shear	1				ST 7/3
						PT 1
						Bird 1
1842					Sunset	25/21
						83/41
						148/39
						256 101
						SPA - 78
						1 - 17

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DATE 6 May 1965
Pg. # 1

time	species	#	dir.	hgt.	remarks	loc.
0550					Sunrise	
0605	Shear-Pet	1			Black? above, light below, small; Newell's or Bain?	
0612	Sooty Tern	2				
0634	W.T. Tropic	2				
0705	Wedgetail Sh.	1				ST 14/2 S-P 2/2 WTT 2/1 W 9/7 Sh 1 SS 4/4 LSP 8/8 J 1 PJ 4/3 LTJ 1 BP 2/2 NS 1 CP 1 AS 1 Pet 3/1 53/35
0737	Wedgetail Sh.	1				
0738	Sooty (?) Sh.	1	N			
0739	Wedgetail	1				
0746	"	1				
0756	"	1				
0846	Leach's Petrel	1				
0841	Leach's Petrel	1				
0911	Jaeger Sp.	1				
0950	Leach's Sp.	1				
0954	Pomarine Jaeger	1	W		Adult	
1200	Sooty Shear	1	✓			
1209	Sooty Shear	1	✓			
1238	Jaeger LT	1	N		Longtailed? - PWW - Def. not Pomarine	
F 1310	Sooty Tern	12				
	Wedgetail	3				
1320	Sooty Shear	1	✓			
1340	Wedgetail	1				
1358	Leach's Sp.	1				
1405	"	1				
1407	Bulwer's	1				
1443	Newell's Sh.	1				
1520	Leach's P(?)	3				
1521	Cook's P.	1				
1628	Leach's S.P.	1				
1625	Leach's	1				
1714	Pom. Jaeger	1	N			
1757	"	2	N		1 light, 1 dark	
1804	Audubon's	1				
1806	Bulwer's	1				
1815	Leach's	1				
1815	Sooty Shear	1	✓		Got off water	
1825	Shear-Pet	1				
1830					Sunset	

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DATE 7 May 1965
Pg. # 10

time	species	#	dir.	hgt.	remarks	loc.
0555	Wedgetail	1				
	Newell's	1				
0713	Wedgetail	1				W 11/5
0720	Shear-Pet	1				N 1
0721	Leach's	1				S-P 2/2
0721	Sooty Shear	1				LSP 2/7
	Shearwater	1				SS 1
0810	Leach's	1	N			WTT 1
0812	W.P. Tropic	1				ST 37/3
FF 0815	Sooty Tern	35 ± 5				FT 1
	Wedgetail	7 ± 1				LTD 5/2
	Fairy Tern	1				PT 2/2
	Longtail Jaeger	1	N		Very, very long central tail feather projections	KP 1
0815	Leach's	1				Bird 2/2
0816	Longtailed Jaeger	4	N		1 coll - 1 dusted	PJ 2/2
0902	Leach's	1				SP
0948	Leach's Pet	1				Pet 2/1
1000	Sooty Tern	1				9
1020	Leach's	1	N			25/26
1045	Pterodroma	1				
1047	Jaeger	1				
	Wedgetail	1				
	Sooty Tern	1				
	Pterodroma	1				
1050	Wedgetail	1			possibly Dark-rump. Large as Wedgetail. White forehead seen.	
1058	Kermadec Pet	1	DP		uniform brown back. underwing like Wedgetail spec	
1100	Shear-Pet	1				
1110	Bird	1				
1142	Pom. Jaeger	1	N			
1144	Shear	2				
1258	Pomarine T.	1			H20 either Bulwer's or Leach's. seen only briefly.	
1328	Leach's ?	1				
1415	Kermadec Jaeger	1				
	Pterodroma	1				
1422	Jaeger ?	1			All dark above, dark underwing (as white seen), cream colored body with breast band, loose flapping w/ banks CDP	

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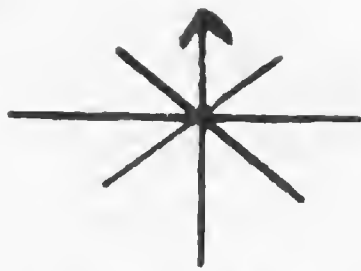
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DATE 7 May 1965
Pg. # 2

time	species	#	dir.	hgt.	remarks	loc.
1430	Cook's Pet.	1				
1509	Wing Pet.	1				CP 1
	Red tail tropic					RTT 1
1522	Sooty Shear	1				SS 3/2
1625	Shear Pet	1				S-P 2/2
1705	Newell's	1				N - 1
1705	Shear-Pet	1				PT - 2/1
1740	Pterodroma	2				Bird - 1
1758	?	1				1 - 1
					Either very large shearwater or small albatross. Slow stiff wingbeats. Very long narrow wings. White below. Mottled dark-white above. Whiter near wing ends. Low gliding flight over water; kept fairly flat to water. Wing beats faster than a Black-foot's but slower, stiffer, + more awkward than a Pale-foot's wing beats.	
1803	Jarvis (sp?)	1				
1810	Sooty Shear	2				12/10
1817					Sunset	
					Sunrise this day 0543	

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DATE 8 May 65
Pg. # 1

time	species	#	dir.	hgt.	remarks	loc.
0538					Sunrise	
0547	Cook-Bonin	1				C-B 1
0548	Shear-Pet	1				S-P 13/3
0555	Cook-B	1				CP 1
0555	Bulwer	1				BP 1
0556	Wedgetail	3			1 d.p., 2 l.p.	W 37/11
0558	Storm Petrel	1			Definitely all black	SP 2/2
0600	Blue-faced	1			Subadult - coll., Husted	BFB 6/4
0610	" "	1			" " " "	
0611	Wedgetail	1				
0617	Newell's Shear	1			humped back flight, ruffled wing best, back blacker than the	
0625	WTTB	1				
0628	Newell's Shear	1				
F 0643	JFP	25±			1 BFB coll Merrill	NS 2/2
	BFB	3			1 JFP " Husted	WTT 1
	Sooty Tern	30±				JFB 55/12
	Wedgetail	10±				ST 30/1
	Shear-Petrel	10±				AS 1
0720	Wedgetail	3			dark	LSP 1
0727	Wedgetail	2				
0734	Wedgetail	4				151/104
0742	JFP	3				47
0745	JFP	2				75/41
0754	Wedgetail	4				42/39
0756	JFP	7			weathered	32/24
0759	Shear-Pet	2				
0800	JFP	2			1 collected Husted	300
0804	JFP	1				
0815	Wedgetail	2				
0829	Juan JFP	2				
0830	Wedgetail	1				
0830	Storm Petrel	1			leacher	
	Wedgetail	3-5				
0831	Audubon's Shear	1				
0833	BFB	1			collected Husted	
0835	JFP	1				
0840	JFP	6			weathered 1 coll Husted	
0841	Leacher	1				
0842	Wedgetail	4				
0845	JFP	3			3 dark	
0855	JFP	2				
0900	JFP	1			collected Husted	

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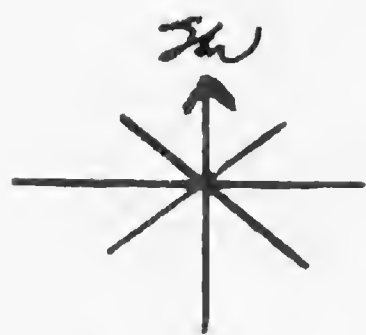
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Pg. # 2

time	species	#	dir.	hgt.	remarks	loc.
0903	JFP	2				
0906	Wedgetail	1				
0912	Shear sp	2			Audubons or Newells	
0920	JFP	1				JFP 35/18
0921	Wedgetail	1			collected Merrill's Shear d p	W 27/15
0926	Shear-Petrel	1				Sh 2/1
0929	Wedgetail	1				S-P 2/2
0932	JFP	2				LSP 8/5
F 0940	JFP	5			1 WT coll Shear Merrill's d p	AS 1
	Wedgetail	4				
0947	Wedgetail	2				
0954	Wedgetail	4			dark phase	75/47
0958	JFP	4				
0959	Wedgetail	2			dark	
1015	Wedgetail	1				
1020	Leach's SP	1				
1022	JFP	1				
1027	JFP	2				
1029	JFP	1				
1030	Wedgetail	1				
1031	Wedgetail	1				
1036	JFP	1				
1038	JFP	1			sitting on water	
1042	Audubons Shear	1				
1050	Leach's SP	2			collected Merrill	
F 1130	JFP	6				
1135	JFP	1				
1142	JFP	1				
1143	Leach's SP	2			Leach's SP	
1145	JFP	1				
1150	Leach's P	1				
1155	JFP	1				
1200	Wedgetail	1				
1203	Shear-Petrel	1				
1205	Wedgetail	2			sitting on water	
1207	JFP	1				
1216	JFP	3				
1220	Wedgetail	2				
1224	Wedgetail	2				
1227	JFP	1				
1230	Leach's SP	2			what time down weather for shooting	
1232	Wedgetail	2				

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Pg. # 3

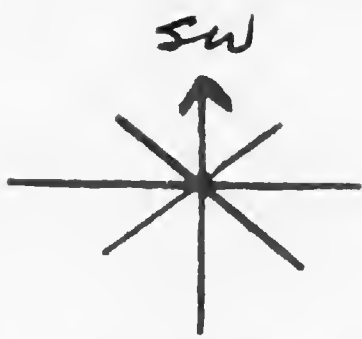
time	species	#	dir.	hgt.	remarks	loc.
1300						
1255	Wedgetail	1			D.P.	
1255	Juan Fernandez	1				
1258	Petrel	1			Bulwer's or Storm	
1300	Juan Fernandez	1				
1300	"	1				
1308	"	1				
1312	Red tail Tropic	1				
1317	JFP	1			collected murrell & Woodward	
1325	"	1				
1343	Wedgetail	1			D.P.	
1400	Sooty Shear	1				
1400	Juan Fernandez	2				
1415	JFP	1				
1416	Leach's SP	1				
1418	BFB	1				
1420	Leach's SP	1				
1480	JFP	2				
1431	JFP	1				
1433	Sooty Shear	1				
1434	Leach's SP	1				
1435	Wedgetail Sh.	1			dark phase	
1506	Shear-Pet	1				
1507	Sooty Tern	2				
1508	JFP	1				
1508	JFP ???	1				
1523	JFP	1				
1524	Sooty Sh.	1				
1530	Leach's P.	1				
1531	Newell's	1				
1536	Juan Fernandez	1				
1542	Newell's Sh.	1				
1544	JFP	1				
1544	JFP	1			Got off 120	
1553	Bulwer's	1				
1554	JFP	1				
1612	JFP	1				
1612	"	1				
1614	Wedgetail	1			D.P.	
1615	Red tail Tropic	1				

W 4/4
JFP 20/18
Pet 1
RTI 2/2
SS 3/3
LSP 4/4
BFB 1
S-P 1
ST 2/1
PT 1
NS 2/2
BP 1

42/39

SI-MNH-958e
7-28-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG -- E



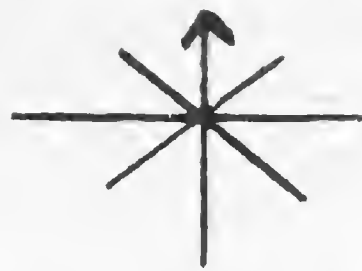
DATE 8 May 65
Pg. # 4

time	species	#	dir.	hgt.	remarks	loc.
1630	Leach's	1				
1641	"	1				
1641	Newell's	1				
1657	Wedgetail Sh.	1	—	—	dark phase	
1700	"	2				LSP 4/4
1701	Wan Furannawou	2				NS 1
1702	Shear pet	2				W 4/3
1706	JFP	2				JFP 17/11
1713	shear-pet.	1				S-P 3/2
1713	Leach's	1				BP 1
1714	JFP	1				SP 1
1715	JFP	4				PT 1
1720	Bulwer's P.	1				32/24
1728	JFP	1				
1730	JFP	1			collected <i>Hurles</i>	
1745	"	2				
1745	Storm Petrel	1			All black, smaller than Leachs	
1750	JFP	2				
1755	"	1				
1802	Pterodroma	1				
1808	Wedgetail	1			D.P.	
1809	Leachs	1				
1813	JFP	1				
1813	"	1			Sunset	

SI-MNH-958e

7-28-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG -- E



DATE 9 May 1965
Pg. # 1

time	species	#	dir.	hgt.	remarks	loc.
0545	Wedgetail	1			dark phase	
0601	Pterodroma	1				
0605	J.F. Petrel	1				
0605	Wedgetail	1			dark phase	W 34/9
0606	JFP	1				PT 1
0609	Wedge tail Sh.	1				JFB 42/11
0611	"	1				BFB 2/2
0614	JFP	1				J 1
0618	JFP	1				NS 4/4
0619	Wedgetail Sh.	1				PT 3/2
0627	Blue-faced B.	1			collected immature <i>Heteractis</i>	BP 3/3
0630	Jaeger (sp)	1				ST 60/2
0645	Newell's	1				RTT 1
0658	BFB	1			collected Woodward	CP 8/2
0700	Newell's	1				157/29
0712	J.F. Petrel	1				
0716	Wedgetail	2			D.P. 2 LP	
0730	J.F. Petrel	1				
0730	Newell's	1				
0730	Pom. Jaeger	2				
0731	J.F. Petrel	1				
0732	Bulwer's	1				
0743	J.F. Fernandez	4				
0744	Bulwer's Pet	1				
0800	J.F. Petrel	1				
FF 0810	Sooty Tern	50 ± 10			2 coll. ~ 5 immatures	
	Juan Fernandez	25 ± 5				
	Wedgetail	8 ± 2			all dark phase collected	
	Kauai Petrel	1				
	Newell's	1				
0838	Pom. Jaeger	1				
	RT tropic	1			remained in area of feeding birds for 5-10 min.	
	Cooks	5 ±				
	Bulwer's	1				
F 0900	WT	15				
	ST	10				
	JFP	5				
	Cooks Petrel	3				
1000	Wedgetail	4				

9 May 1965

P 2

Time	Species	Number	
1010	JFP	1	
1024	Sooty Tern	25	
	Wedge Tail	4	Dark Phase
	JFP	2	
1025	Newell's shear	1	
1027	JFP	1	
1028	Newell's shear	1	
1037	JFP	1	
1040	JFP	2	
1044	Leach's ST.	1	
1100	Flock		
	Sooty Tern	175 ± 25	2 imm. collected - Merrill & Husted?
	Juan Fernandez	15 ± 5	
	Cooks	6 ± 2	
	Wedge tail	12 ± 4	
	Audubons	2-3	
1115	Bulwer's	1	
1132	JFP	2	
1133	Wedge tail	3	Dark phase
1140	"	1	
1146	Newell's	1	
1155	JFP	1	
1204	Wedge tail	1	Dark
1207	Sooty shear	2	
1233	Blue Faces Booby	1	Collected by Merrill
1309	Wedge tail Sh.	1	DARK phase
1313	"	1	"
1315	JFP	2	
1322	Wedge tail Sh.	1	DARK phase
1329	Red tail tropic bird	1	
1330	Wedge tail Sh.	1	DARK phase
1355	"	1	"

JFP 27/9
ST 200/2
W 35/10
NS 313
LSP 1
CP 6/1
AS 2
BP 1
SS 2
BFB 1
RTT 1
270/25

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
PRESENT AND PAST MONTHLY SUMMARY OF BIRD ACTIVITIES -
ISLANDS OF THE CENTRAL PACIFIC

* SPECIES ACCOUNT-SPECIMEN
1 1963
2 1963
P POPULATION OR NUMBERS
B BREEDING INFORMATION

[illegible]

JFK SPA

Page 3

09 May 1965

Time	Species	Number	Remarks
1408	JFP	1	
1410	Wedgetail	1	
1422	Wedgetail	1	dark.
1430	Wedgetail	2	dark
1433	JFP	1	
1436	Wedgetail Shear	2	DARK
1440	Wedgetail Wedgetail	2	
	JFP	2	
1452	Blue faced Booby	1	collected Hunted
1600	Howell's S	1	
1605	Wedgetail	1	
1607	JFP	1	
1617	Wedgetail	1	dark
1620	Wedgetail	6	dark.
1621	JFP	2	
1632	Wedgetail	2	Dark
1647	Shear - Pet.	1	
1654	Coastal Petrel	1	
1700	JFP	1	
1714	JFP	2	
1717	"	1	
1730	"	1	
1730	Phoenix Is. Petrel	2	separate
1732	Shearwater	1	Dark back - mid ray between brown + black; white didn't come up sides onto rump; dark undertail coverts very noticeable; flight looser than Newell's but not as irate as Audubon's.
1734	JFP	2	
1737	"	2	
1738	Leach's	1	
1742	Bulwer's P	1	
1750	White-thr. St. Petrel	1	K.A.
1802	Sooty(?) Shear	1	

JFP 16/17

W 18/9

BFB 1+1

NS 1

S-P 1

CP 1

PIP 2/2

SH 2

LSP 1

BP 1

WT-SP 1

45/29

1/1

159/29

270/25

475/84

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
PRESENT AND PAST MONTHLY SUMMARY OF BIRD ACTIVITIES -
ISLANDS OF THE CENTRAL PACIFIC

* SPECIES ACCOUNT-SPECIMEN
1 1963
2 1963
P POPULATION OR NUMBERS
B BREEDING INFORMATION

[illegible]

May 9, 1965
Page 4

1607

B & Boby

Call. Husted

1821

← Sunset

SI-MNH-332
4-9-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
PRESENT AND PAST MONTHLY SUMMARY OF BIRD ACTIVITIES -
ISLANDS OF THE CENTRAL PACIFIC

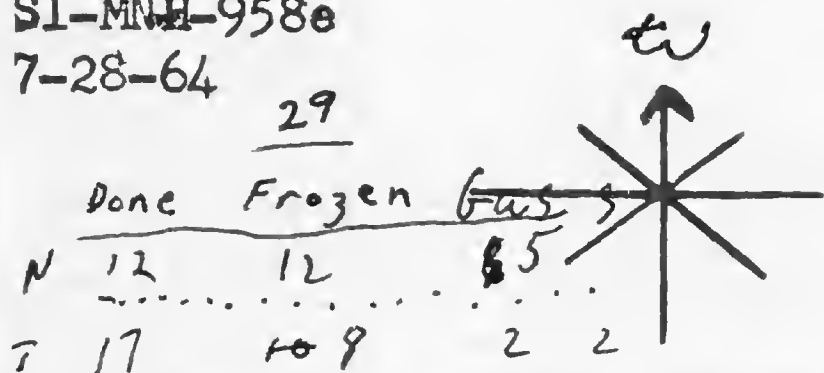
* SPECIES ACCOUNT-SPECIMEN
1 1963
2 1963
P POPULATION OR NUMBERS
B BREEDING INFORMATION

[illegible]

SI-MNH-958e
7-28-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG -- E

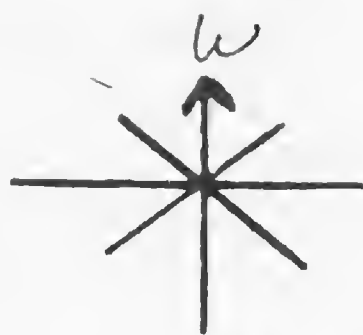
DATE 10 May 65
Pg. # 1



time	species	#	dir.	hgt.	remarks	loc.
0546					Sunrise	
0550					change course to 270	
0603	Juan Fernandez	1				
0607	Wedgetail	1			dark phase	
0615	Sooty? Shear	1				
0620	Newell's?	1			some dark under tail & wing borders, no white on sides of rump	
0625	Juan Fernandez	1				
0637	Shear-Pet	1				JFP 20/17
0645	"	1				WT 2/2
0645	Sooty? Shear	1				Sh. 4/4
0646	Juan Fernandez	1				S/P 5/4
0700	Sooty? Shear	1				B 1/1
0700	Bulwer's	1				C/B 1/1
0730	Cook-Bonin Type	1				ST 1/1
0743	JFP	1				NS 1/1
0745	Shear	1				BFB 2/2 (one Imm.)
0748	JFP Petrel	2				CP 2/2
0752	Shear-Pet	2				T 1/1 (Most likely an Arctic Petrel)
0755	Sooty Tern	1				
0800						
0801	JFP Petrel	1				40 ✓
0805	Newell's	1				36 ✓
0805	Bl-f Booby	1			collected - Husted ♀	
0810	Cooks	1				TB 40
0815	Wedgetail	1				TD 36
0817	JFP	1				
0825	JFP Petrel	1				
0827	Shear-Pet	1				
0841	JFP	1			coll Woodward 0847 Reliability - 2	
0903	JFP	1				
0923	JFP	1				
0935	JFP	1				
0936	JFP	1				
0945	Blue-faced B.	1			Imm.	
1004	JFP	1				
1033	JFP	2				
1042	JFP	2				
1056	Arctic (?) Tern	1			watched it for about 2 minutes and it flew out of line of range	
1101	JFP	1				
1101	Cook's P	1				

Paul Darnett
↓
- About 200 yds in front of ship. Black cap; dark bill solidly colored - black or dark blood couldn't tell cause of dull light. Back + wings a light to medium grey (evenly colored -- no light or darker primaries. Neck very light grey to dull white. Tail + rump white. Flight + throat dull white. Light grey tinge across breast and sides of belly. Tail streamers not exceptionally long. Couldn't see whether was any white streak immediately below cap.

SI-MNH-958e
7-28-64



SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG -- E

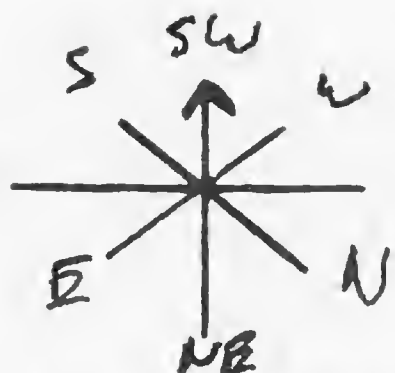
Pelagic Bird
Survey
DATE May 10, 1965
Pg. # 2

time	species	#	dir.	hgt.	remarks	loc.
1222	Newell's	2				
1232					Porpoise - ~ C	
1235	Sooty Tern	1				
1256	Shearwater	1	SE		Newells or Sooty - silhouette	
1315	Bulwer's P.	1				
1326	Cook's/Bonin	1				WS 6/5
1326	JFP	1				ST 29/2
1327	Bulwer's	1				Sh 10/9 9/8
1336	Leach's SP	1				BP 3/3
1343	Sooty Shear	2	W			C/B 1/1
1343	Leach's Pet	2			got off H ₂ O	JFP 11/6
1406	Sooty Shear	1	NW			LP 3/2
1409	Shear	1			Dark	SS 5/4
1420	Tropic bird	1			Red Tailed	RTTB 2/2
1421	JFP	1				WT 20/3
1421	Shear/Pet	1				C 3/1
1429	Wedge-tail	1			Dark phase	BFB 1/1
F 1445	Sooty Tern	28 ± 3			some immatures	S/P 1/1
1445	wedgetail	16 ± 2			2 light phase	
	Juan Fernandez	6 ± 1				27/59 ✓
	Cooks	3				
1512	Newell's ?	1				TB = 94
1521	"	1				TO = 36
1523	"	1				
1558	Juan Fernandez	1				134/72
1615	Newell's ?	1	S			
1616	Newell's	1	S		white coming up side of tail.	
1618	JFP	1				
1620	Newell's	1	S			
1628	BFB	1	⊙		Imm collected 1642 - Woodward	
1639	Sooty? Sh	2			587-81418 ♀	
1639	"	1				
1639	Bulwers	1				
1700	RTTB	1			dark	
1706	wedgetail	1				
1715	Sooty Shear	1				
1720	Sooty Shear	1				
1731	Newell's	1				
1800	JFP	1				
1811	Newell's Sh.	1				
1836					Apparent sunset	

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7-28-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG -- E

DATE 11 May 65
Pg. # 1



time	species	#	dir.	hgt.	remarks	loc.
0030	Newell's (?)	1			Flying w/ ship	NS 3/2
0300	Newell's	2			" " "	SS 14/8
0600					Begin observation	WT 12/9
0604					Sunset rise	ST 27/2
0605	Newell's	1			Flying with ship	BFB 3/3
0613	Sooty SH	2	NW			JFP 10/5
0616	Wedge-tail	2			1 dark phase	CP 3/3
0622	Sooty Tern	3			1 coll <u>Hunter</u> ♂	PT. 1/1
0628	Sooty Shear	1				S/P 6/4
0637	BFB	1			imm coll <u>Hunter</u> ♀	WNP 1/1
0640	JFP	2				LP 2/2
0641	Sooty Shear	2				BP 2/2
0643	Wedge-tail	1				J 1/1
0645	Sooty Shear	1				
0649	JFP	2				
0650	Wedge-tail	1			coll - <u>Hunter</u> ♀	
0654	BFB	1				
0656	JFP	1				
0704	Wedge-tail	1			d.p.	
0704	Pterodroma	1				
0710	JFP	2			dark	
0714	Wedge-tail	1				
0718	Shear. Petrel	1			coll <u>Hunter</u> ♀	
0721	BFB	1			coll <u>Hunter</u> ♀	
0729	WNP	1				
0731	Leach's SP	1				
0734	Wedge-tail	1			dark	
0748	Shear. Petrel	1				
0752	Shear. Petrel	1				
0754	Wedge-tail	1			dark phase	
0800	Newell's	2				
0802	Bulwer's	1				
0805	Wedge-tail	1			dark phase	
0812	Sooty Shear	2				
0815	Wedge-tail	1				
0819	Sooty Shear	1				
0820	Wedge-tail	2			dark	
0821	JFP	3				
0822	Shear. Petrel	3				
0829	Long-tailed?	1			collected merrill ♀	
0835	Leach's SP	1				
0841	Sooty Shear	1				
0852	Wedge-tail	1				
0855	Bulwer's Petrel	1				
0900	Sooty Tern	24			dark phase	
	Wedge-tail	2				
	Sooty Shear	1				

NS 3/2

SS 14/8

WT 12/9

ST 27/2

BFB 3/3

JFP 10/5

CP 3/3

PT. 1/1

S/P 6/4

WNP 1/1

LP 2/2

BP 2/2

J 1/1

10 dark

1 coll.

3 coll.

coll.

Imm. LT. (?)

coll.

82 4/3

TB-82

TO-41

F-1(27)

SA-49

Tr-0

T-2 1/2

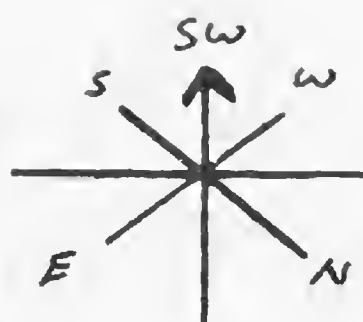
B-3/3

F-0

PT-

SP-

SI-MNH-958e
7-28-64



SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG -- E

DATE 11 MAY 1965
Pg. # 2

time	species	#	dir.	hgt.	remarks	loc.
0909	Cook's Petrel	1				
0915	Sooty Shear	1				
0916	JFP	1				
0930	BFB	1			all shut ^{♀ perched} & Merrill - banded & painted green on breast	
0935	Wedgetail	1			dark	
0940	Cook's Petrel	1				
0946	JFP	1				
0947	Sooty Tern	1			immature	
0958	Sooty Shearwater	1				✓ CB 3/3
1009	JFP	1				✓ SS 15/15 by/ha
1010	Wedgetail	2			dark	✓ JFP 7/5
1017	Sooty Tern	2			collected 1 banded, 1 merrill [♀] 203	✓ BFB 4/4 coll.
1028	Wedgetail	1			dark	✓ WT 27/10 10 dark
1033	Sooty Shear	1				✓ ST 75/5 3 coll
1035	Wedgetail	1			dark	✓ NS 1/1
1040	Newell's Shear	1				✓ Sh 1/1 (slender-bill?)
1044	Sooty Shear	1				✓ J 1/1
1045	Wedgetail	2			dark	✓ BP 1/1
1047	Cook's Petrel	1				✓ X 2/1 1 coll.
1050	Wedgetail	1			dark	RTTB 1/1
1055	Wedgetail	1	dark			
1056	Slender B. Shear?	1				
1110	Sooty Shear	1				
1120	BFB	1			SA - ♀ coll - Merrill	
1122	JFP	1				
1140	Sooty Shear	1				
1145	Sooty Shear	1				
1153	Sooty Shearwater	1				
1205	Sooty Tern	15±			all Merrill	
1207	Sooty Shear	1				
1210	Wedgetail	1				
1211	BFB	1				
1220	RTTB	1				
1225	Sooty Shear	1				
1226	Wedgetail	1			dark	
1235	Jaeger (Imm)	1				
1235	Sooty Tern	2				
1235	Bulwer's	1				
1244	Sooty Shearwater	1				
1246	"	1				
1250	Porpoise	25			Young	
1259	Sooty Shearwater	1				
1259	"	1				
1259	"	1			Dark	
1308	Wedgetail Sh.	1				
1313	Blue-faced Booby	1				
F 1320	Sooty Tern	55±5				
	Wedgetail	15±2			d.p.	
	Christmas Is.	2			1 coll - Merrill ♀	
	Juan Fernandez	3-4				

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7-28-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG -- E

DATE 11 May 65
Pg. # 3



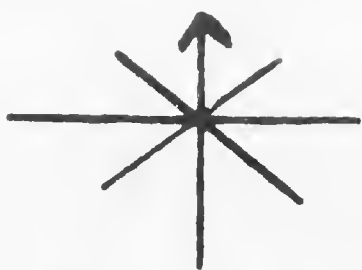
time	species	#	dir.	hgt.	remarks	loc.
1330	BFB	1			SA call <i>Whistled</i> →	
1340	Cook's Petrel	1				
F 1400	Sooty Tern	50±2			3 probably feeding - distant, could not catch up	
	Shear-Pet	3±2			joined flock - # call after flock passed	<i>Whistled 3</i>
1405	BFB	11				<i>American 1</i>
1410	Shear-Pet	11			DP Wedgetails or Sooty Tern <i>Wedgetail</i> flock	
	Wedgetail	25±10			10±5 for 2 light phase	
	Fairy Tern	2				
	Audubon's P.	1				
	Green Tropicbird	3±4				
1435	Sooty Shear	1	✓			
1440	Shear-Petrel	1				
1445	Cook's Petrel	2				
1453	JFP	1				
1458	Wedgetail	3			dark	
1500	Sooty Shear	1	✓			
1504	Tropicbird sp.	1				
1508	Wedgetail	4				
	JFP	2				
	Sooty Tern	3				
1514	Bulwer's Petrel	1				
1520	JFP	1				
✓ 1523	BFB	1			collected <i>Merrill</i> →	
1527	Sooty Tern	25±			travelling, Terns high	
	Shear Petrel	6±				
1531	Sooty? Shear	1				
1533	Wedgetail	1			dark	
1541	Sooty Shear	1				
1542	Christmas Is. Shear	1				
1549	Sooty Shearwater	1				
1555	" "	2				
1557	" "	2				
	Christmas Is. I.	1				
1600	Christmas Is. I.	1				
1601	Sooty Shear	1				
1609	Wedgetail	1			dark	
1615	Wedgetail	1			dark	
1630	Sooty Shear	2				
1633	Sooty Tern	12±				
	Wedgetail	3				
	Murrelets	1				
1645	Sooty Tern	100±			2 call <i>Merrill</i> →	
	Wedgetail	25±			1 call " →	
B F	Cook's	4			" " <i>Whistled</i> →	
1650	BFB	1			call <i>Whistled</i> ?	

BFB 16/5
CP 3/2
ST 190/5
W 113/8
FT 3/2
Sh 2/2
JFP 7/4
SS 11/8
S-P 9/2
T 1
BP 1
CIS 5/3
NS 1
362/31
362

2 also Christmas Is Shear 3
Fairy Tern 1
9 banded

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7-28-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG -- E



DATE 11 May 65
Pg. # 4

time	species	#	dir.	hgt.	remarks	loc.
1715	BFB	1			coll <u>1715</u> 07	
1719	Bulwer's Petrel	1				
1721	BFB	1				
1733	Sooty Shear	1	✓			
1734	Sooty Shear	1	✓			
1735	Wedge-tail	2			dark	
1739	Sooty Shear	2	✓			
F 1745	Sooty Tern	30				
	Wedge-tails	8	---	---	-DIT	
	JFP	1				
1757	Sooty Shear	1	✓			
1758	Sooty Shear	1	✓			
1800	Sooty Shear	2	✓			
1801	Sooty Shear	1	✓			
F 1810	Sooty Tern	16			bk.	
	Wedge-tail S	2				
1827	Sooty Shear.	1	✓			

BFB	2/2
BP	1
SS	10/8
LT	12/3
ST	46/2
JFP	1
	<hr/> 72/14

CP	3/3	3/3	3/2		
SS	15/15	11/8	11/8	10/8	
JFP	7/5	10/5	7/4	1/1	+ coll
BFB	4/4	3/3	16/5	2/2	14 coll. 2 banded
WT	27/11	10/9	113/8	17/3 17/3	1 coll
ST	75/5	27/2	190/5	46/2	5 coll.
NS	1/1	3/2	1/1		
Sh	1/1		(Slender-billed ?)	5/2	
J	1/1	1/1			1 imm. coll
BP	1/1	2/2	1/1	1/1	
X	2/1		5/3		1 coll.
RTTB	1/1				
PT		1/1			
S/P		6/4	9/2		
WUP		1/1			1 coll.
LP		2/2			
FT			3/2		
TB			1/1		

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG -- E

Palmyra Island
Shannon
DATE 12 May 1965
Pg. # 1

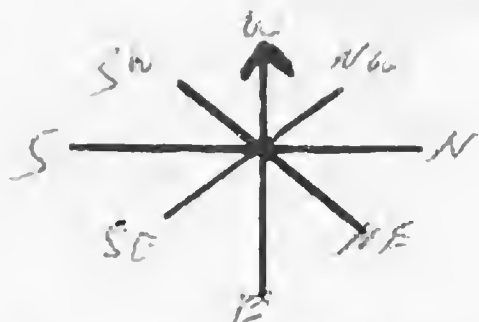


time	species	#	dir.	hgt.	remarks	loc.
0530	RTTB	1			coll <i>Thalassidroma</i>	CV 1/1
0545	Wedgetail	1			<i>Darkyphora</i>	RTTB 1/1
0547	Sooty Shear	1	✓			Wt 13/8
0550	Jaeger sp	1				SS 8/8
0610	Jaeger sp	1	NW			J 7/2
0705	Sooty Shear	1	NW			BP 6/6
0710	Sooty Shear	1	NW			Pf. 2/2
0711	Bulwer's	1				JFP 3/3
0720	Sooty Shear	1	NW			Bi 1/1
0723	Pterodroma	1				C/B 2/2
0735	Bulwer's	1	N			BEP 1/1
0735	Wedgetail	1			d.p.	BFB 1/1
0740	J.F. Petrel	1				ST 33/4
0741	Bulwer's	1				<i>19/34</i>
0747	Pterodroma	1				✓ 74/40 ✓
0815	bird	1			dark	
0825	Wedgetail	1				TR = 74
0826	Sooty Shear	1	✓			TD = 39
0826	Bonin Gull type	1				
0829	Wedgetail Sh	1			dark	
0830	Bonin type	1				
0834	JFP	1				
0841	Wedgetail	1			dark	
F 0843	Sooty Tern	12			Possible Bonin	9/9
0900	Bonin Gull type	1				
0912	Wedgetail	1				
0927	Sooty Shear	1				
0933	"	1				
0935	Sooty Tern	2				
F 0940	Sooty Tern	15 ± 2			1 coll. P.W. <i>Uria</i> ♂ 26-3	
	Wedgetail	6 ± 1			5 dark at land	
0947	Sooty GL	1				
0956	BFB	1			coll <i>Thalassidroma</i> ♀	
1000	Bulwer's Petrel	1				
1007	Sooty Tern	4				
1016	Bonin Petrel	1				
1033	Bulwer's Petrel	1				
1049	Wedgetail Sh.	1			dark	
1055	JFP	1				
1055	Bulwer's	1				

Sl. B.
Brown

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG -- E



Booby 1/43.

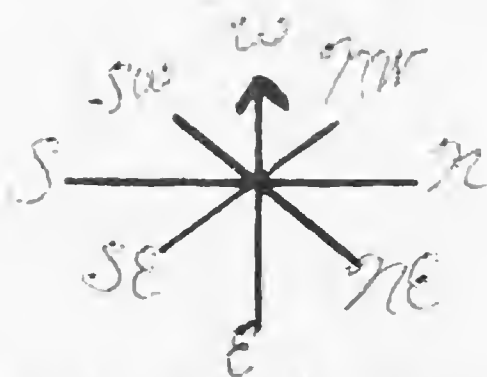
DATE 12 MAY 1965
Pg. # 2

time	species	#	dir.	hgt.	remarks	C/B	loc.
F 1658	Sooty Tern	10				Mid	1/1
1608	Slender Billed Shear	1				✓ ST 38/4	33/4
1617	RTTB	1			coll <u>Shrike</u> ♂	✓ SBS 1/1	
1620	Jaeger sp	1			immature	✓ RTTB 3/3	1/1
F 1630	Sooty Tern	25				J 2/2	2/2
	Fairy Tern	1				PT 1/1	
	Jaeger sp	1				WT 21/8	13/8
	Wedgetail	5			dark	S/P 5/3	
	Shear-Petrel	2				BP 6/6	6/6
1700	Bulwers	1					
1731	Shearwater	1	N		Sooty or Slender Billed; no flashes seen	Sh 2/2	
1735	Sooty Shear	1	N			SS 5/5	3/8
1745	JFP	1				JFP 1/1	3/3
1748	Shear-Pet	2				CP 1/1	1/1
1748	Cooks	1					
1748	Bulwers	1				BFB 7/4	1/1
1758	BFB	1			♂ A coll Shrike ♀	NS 3/2	
1820	Bulwers	1			huddling across water	T 13/3	
1822	Wedgetail	2			4 p 3 on water	PT. 2/2	
	Newell	1					
1829	Wedgetail	2			1 p, on water		
1830	Shearwater	1					
1832	Terns?	2					
1836	Wedgetail	5			on water; ♀ coll - W & 1/4 TB = 105 + 74		
F 1415	Terns	10±					TD = 42 + 39
1504	Wedgetail	2					
1515	BFB	1			immature		
1523	Shear-Petrel	1					
1600	Tern	1			Appeared all dark. flying low over water		
1610	BFB	1			coll <u>Shrike</u> ♀		
1614	BFB	1					F = 5 (87); (34)
1615	Bulwers Pet	1					
1630	Sooty Tern	2					
	Wedgetail	1			dark		
1637	Sooty Shear	1					
1638	Bulwers Petrel	1					
1646	Wedgetail	1			dark		
1642	Sooty Shear	1					
1703	Sooty Tern	1					
1710	Bulwers Pet	1					
1713	Sooty Shearwater	1					
1716	Newell's Sh.	1					
1736	Wedgetail Sh	3					
1747	Sooty Shearwater	1					
1750	Red-tailed Tropicbird	1					
1755	"	1			Sunset		

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG -- E

DATE 13 May 1965
Pg. # 1



	time	species	#	dir.	hgt.	remarks	loc.
0530	0525	Wedge-tail	1			dark	
	0547	BFB	1			Swirise	
	0550	Sooty Tern	1				BFB 3/3
	0551	Red-tailed Pet	1				ST 14/5
	0558	White-necked Pet	1				RTTB 4/3
	0602	Sooty Tern	6				WNP 1/1
	0603	Sooty Tern	4				SS 3/3
	0604	" "	2				AS 1/1
	0605	Blue-faced B.	1				LP 2/2
	0613	Sooty Shearwater	1				JFP 4/4
	0620	Bulwer's Sh.	1			Dark Phase	S/P 4/4 (see note 1310)
	0624	Wedge-tail Sh.	1				WT 7/2 7 D.P.
	0633	Leach's S.P.	1				NS 1/1
	0634	JFP	1				BP 2/2
	0635	Shear-Pet	1				WTTB 3/3
	0640	Sooty Shear	1			Dark Phase	CP 1/1
	0641	Wedge-tail Sh.	1			Dark Phase	AFB 1/1
	0642	Wedge-tail Sh.	1			Dark Phase	P.J 1/1
	0711	Wedge-tail Sh.	1			Dark Phase	
	0713	Wedge-tail Sh.	1			Light Phase	
	0715	Newell's Sh.	1				
	0718	JFP	1				
	0721	Blue-faced B.	1			5/4	
	0724	Sooty Shear	1				
	0740	Bulwer's	1				
	0743	White-tailed TB	1				
	0757	Wedge-tail Sh.	1			Dark Phase	
	0800	Bulwer's	1			feeding	
	0802	Goat's Pet	1				
	0855	RTTB	2				
	0859	RFB	1				
	1005	JFA	1				
	1121	JFP	1				
	1121	Pom Tar	1			Dark i chasing JFP	
	1124	Wedge-tail	1			D.P	
	1130	Shear/Pet	1				
	1133	Wedge-tail	1			D.P	
	1145	Sooty Tern	1				
	1240	WTTB	1				
	1303	Shear-Pet	1				
	1310	Shear-Pet	1			dark wing (upper and under) body very light gray; head black	
	1328	Leach's	1				
	1405	RTTB	1				

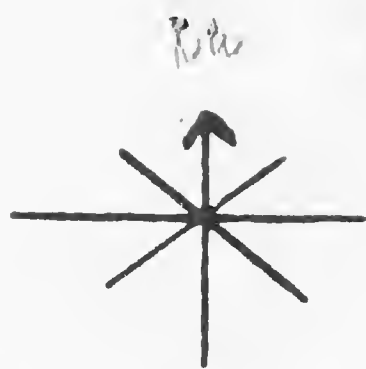
52/42
TB = 52
TP = 42
F = 0

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG -- E

DATE
Pg. #

13 May

2



time	species	#	dir.	hgt.	remarks	loc.
14:16	Wedge-tail	20 +		all D.P.	Semi-loom flock rapidly broke up as ship approached; no birds within gun range.	
	Newell's	5+				
	Sooty Tern	60 +			3-5 WTs followed along w/ship at 150 yds. for 25 minutes,	
	Fairy Tern	1				
1554	Bulwer's P	1				
1639	Sooty T	4				
1720	JFP	1				
1747	Wedge-tail	1			D.P.	
1815					Sunset	
					WT 2 1/2 all D.P.	
					US 5 1/1	
					ST 64 1/2	
					FT 1 1/1	
					SP 1 1/1	
					BT	
					JFP 1 1/1	
					73° / 8°	
					TB = 93	
					TO = 50	
					F = 1 (.86)	

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG -- E

DATE May 14, 1965
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time	species	#	dir.	hgt.	remarks	loc.
0545					Sun rise	
0550	Sooty Tern	2				
0551	Sooty Tern	1				
0652	Pterodroma	1				
0653	Pterodroma	2				
0659	Shear	1				
0715	Sooty Tern	2				
0819	Wedgetail Sh.	1			Light Phase	
0913	Brown Booby	1				
0940	WTTB	1			coll. Hunted	
1009	Wedgetail	1				
1310	Sooty Tern	1				
1344	Shear - Petrel	1				
F 1355	Sooty Tern Wedgetail	15 3				
1425					Ship sighted off starboard bow	
1437	WTTB	1				
F 1609	Sooty Tern	5				ST 28/7
1615	Sooty Tern	1				PT 3/2
1754	Shear - Petrel	1				LSP 1
1829					Sunset	W 5/3
						BB 1
						WTT 2/2
						S-P 2/2
						<u>42/17</u>

Bl-f. 17?

Wh-f.

Wh-H. V

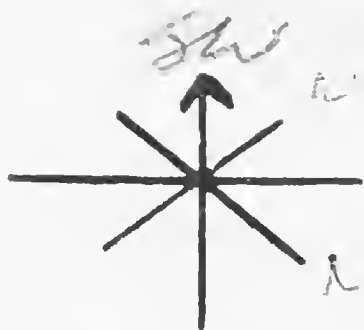
at Q wh. ranges



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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG -- E

DATE 15 May 1965
Pg. # 1

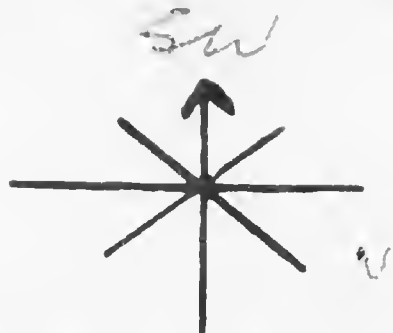


	time	species	#	dir.	hgt.	remarks	loc.
	0600	Bulwers	1				
	0615	WTTB	1				
	0625	Sooty Shear	1				
	0631	Kermadec	1	S	1	Head & wing tips dark brown, rest of wings (upper) & back gray-brown, white patch near tip of underwing, rest of underwing & underbody medium brown. Pterodroma flight.	
	0637	JFP	1				
F	0709	Sooty Tern	2				
		Bulwers Pet.	1				
		Cooks Pet.	1				
		JFP	12				
	0810	Sooty Tern	17				
F	0902	Sooty Shear	1	W			
	0935	Fairy Tern	1				
	1026	JFP	1				
	1054	Sooty Tern	1				
F	1130	Sooty Tern	13	E		1 orange tag	1 coll - Hurst
		Fairy Tern	4				
		Wedgetail	4				
	1144	Wedgetail	1			d. ph.	
	1238	White Tailed TB	1				
	1257	Shear. Pet.	1				
	1300					Shark - missed when lost	
	1322	Sooty Shear.	1	N			
F	1327	Sooty Tern	5				
	1336	Wedge-tail	1				
		Queen Fernand	1				
	1342	Sooty Shear	1				
	1357	JFP	1				
	1402	Sooty Tern	1	W			
	1405	"	1	"			
	1406	Bulwers	1	"			
	1406	Sooty Tern	1	"			
	1406	"	1	"			
	1410	"	3	"			
	1411	"	1	"			

TB=84
 TO=227
 F=24(50)
 (21)
 SS 3/3
 BP 3/3
 WTTB 2/2
 Sh. 1/1
 Pet. 1/1 (Kermadec)
 JFP 15/5
 ST 46/11
 CP 1/1
 FT 5/2
 WT 5/2
 S/P 1/1
 85/32V

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DIVISION OF BIRDS
AT SEA DAILY LOG -- E



DATE 15 May 1965
Pg. # 2

	time	species	#	dir.	hgt.	remarks	loc.
	1600	Fairy Tern	1				
	1604	JFP	1				
	1642	Sooty Sh	1	N		50' in front of bow!	
	1643	Sooty Sh	1	E			
	1711	Sooty Tern	1				
	1712	Wedgetail Sh.	1				
	1717	Bulwer's Pet	1				
FF	1720	Sooty Tern	23	+2			
		Fairy Tern	3				
	1813	W + Tropicbird	1				
	1821	JFP (?)	1			Seemed small; quicker, tighter flight.	
	1844	Newell's Sh	1				
	1845						
		Sunset					
							FT 4/2 JFP 1/1 S.S. 2/2 ST 24/2 WT 1/1 BP 1/1 WTTB 1/1 NS 1/1 Pet 1/1 (JFP)
							TB = 36 TB = 11 F = 1 (26)

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG -- E

DATE 16 May 1965
Pg. # 1



time	species	#	dir.	hgt.	remarks	loc.
0530	Bufo observation					
0536	Wedgetail	2				
0552	Wedgetail	1				
0553	Sooty Tern	1				
0609	JFP	1				
0714	JFP	1				
0726	Wedge-tail	1				
0726	Shear/pet	1				
0732	JFP	1				
0740	Shear/pet	1				
0746	Mottled Petrel	1	NW			
0815	RTTB	1			coll - Husted	
0837	Sooty Tern	1			coll. Husted	
0922	Leach's	1			} Together on water	
	Bulwer's	2				
0959	Sooty Tern	1				
1022	JFP	1				
1037	Wedgetail Sh	1				
1040	Wedgetail Sh.	1				
1100	Bulwer's	1				
1107	Sooty Shear	1				
1205	Wedgetail	1			dp	
1210	Bulwer's P	2				
1235	Shearwater	1	N			
1302	Bulwer's P	1				
1321	" "	1				
1350	WTTB	1			coll - D. H. Husted	
1420	JFP	1				
1435	Bulwer's	1				
1436	Bulwer's	1				
1515	Shear-pet	1				
1520	Pterodroma	1				
1541	Cook's	1				
1541	Pterodroma	1				
1615	Sooty Sh	1				

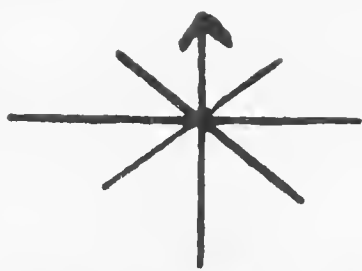
W 5/5
ST 3/3
JFP 5/5
S/P 3/3
MP 1
RTT 1
LSP 1
BP ~~4/7~~ 9/7
SH 1
WTT 1
PT 2/2
CP 1
SS 2/2
BA 35/33

SIB? dark underwing; more flapping, longer, thinner wings, more ~~and~~ crooked than Sooty Sh

size of Wedgetail - Gray back with black on it - like Pterodroma black underneath flew like Wt. -

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG -- E



At Sea
DATE 16 MAY
Pg. # 2

time	species	#	dir.	hgt.	remarks	loc.
1621	Sooty Shear	1	✓			
1626	Leach's S-P.	1				
1636	Bulwer's P.	1				
1643	Shear/Pet	1				
1703	Bulwer's Pet	1				
1715	Sooty Tern	1				
1749	Bulwer's Pet	1				
1821	Shear-Petrel	1				

all White

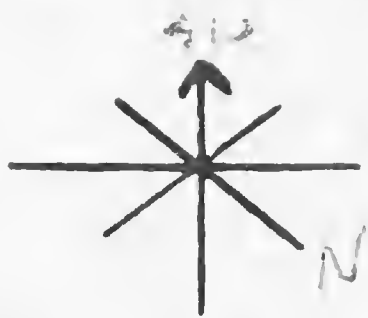
SS 1
LSP 1
BP 3/3
S/P 2/2
ST 1

8/8

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG -- E

DATE 17 May 1965
Pg. # 1

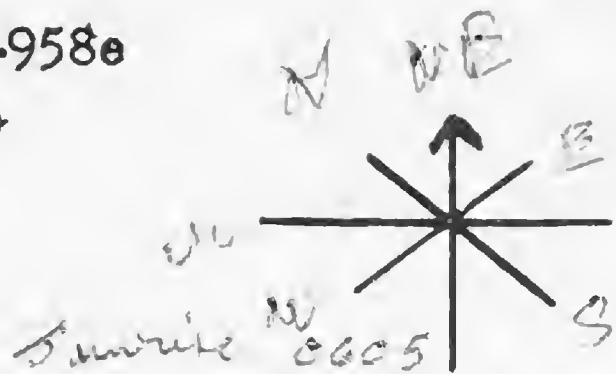


time	species	#	dir.	hgt.	remarks	loc.
0553					Sunrise	
0621	Newell's	1	S			
0629	Shear-Pet	1	S		Appeared all dark above; below except for breast & abdomen; level soaring	
0632	Pterodroma	1	NW			
0647	Cooks	1				
F 0655	Shear-Pet	5	S		along edge of rain	
0927	Sooty Shear	1	N			
1237	Sooty Shear	1				
1255	Lewins S. P.	1				NS - 1 ✓
1300	Wedgetail	3				S-P - 8/3 ✓
1305	JFP	1				PT - 1
1320	Bulwer's Petrel	1				CP - 1
1323	Shear-Petrel	2				SS - 9/9
1500	Sooty Shear	1				LSP - 1
1511	JFP	1				W - 3/1
1524	Sooty Shear	1				JFP - 2/2
1525	" "	1				BP - 11/11
1544	" "	1				Tern - 1
1545	Fairy Tern	1				SH - 1 ✓
1600	Sooty Shear	1				KP - 2/2
1601	" "	1				Bird - 2
1618	Shearwater	1				RTT - 1
1630	Kermadec	1	S		uniform	44/36
1634	Bulwers	1	N		d-p - charcoal gray, light patch above & below	
1634	"	1	N		Prob. Sooty Shear? off	
1742	Kermadec	1	S			
1742	Bulwers	1	N			
1745	"	1	N			
1745	Leans?	2				
1746	Bulwers	1	N			
1751	"	1	N			
1751	"	1	N			
1753	"	1	N			
1753	"	1	N			
1759	"	1	N			
1833	Sooty Shear	1				
1842	Redtail Tr. B.	1				
1848					Sunset	

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG -- E

DATE 18 May 1965
Pg. # 1



	time	species	#	dir.	hgt.	remarks	loc.
	0550	Birds, observations					
	0715	Tropicbird sp	1				
	0738	Sooty Tern	1				
	0758	Cook's Petrel	1	NW			
	0900	Petrel	1			Storm petrel or Bulwer's ? or Cook type	
	0904	Cook's	2	NW			
	0905	Shear-Pet	1	NW		like Cooks in size & coloration above but more uniform above, gray below (wings & body); flight like Christmas Island.	
F	0915	Sooty Tern	10				
	0933	Pterodroma	1	NW		Small; Cooks ? or like 0905 - underside not seen	
	0950	"	1	NW			
	1044	Shear-pet.	1				WT 1/1 TB 1/1 ST 2/8 CP 4/3 Pot 1/1 S/P 10/4 Pt. 10/6 GF 2/2 SS 4/4
	1105	Sooty Tern	2				
F	1118	Sooty Tern	8 ± 1	W		Traveling flock. No feeding	
	1146	Small Pter.	2				
F	1200	Shear pet	1				
	1210	Sooty Tern	27			offigate chasing Sooty Tern; ♀ common	
		Frigate, G.	2				
	1228	Cooks	1	NW			
	1236	Sooty Tern	2				
	1237	Sooty Shear	1	NW			
	1322	"	1				
	1337	Shear-Pet	1	NW		Queen Landward size and general pattern, wings not as broad, back almost white contrasting sharply with N. Resembles New Zealand Shearwater most closely but lacked black cap.	
	1345	Sooty Shear	1	NW			
	1346	"	1	NW			
	1351	Pterodroma	1	N			
	1355	"	2	N		Cooks ? like 1337 but smaller, dark head; un-Pterodroma-like flight, back paler than Cooks, not as pale as 1337	
	1405	"	3	NW			
	1417	Sooty Tern	1				
F	1427	Sooty Tern	3 ± 2				
	1439	Wedgetail	1				

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG -- E



DATE 18 May 1965
Pg. # 2

time	species	#	dir.	hgt.	remarks	loc.
1455	Wedge-tail	1	NE		d p.	
1502	"	1				
1555	Sooty Shear	1	W			
1615	Wedge-tail Sh.	1	W → SE			
1627	Shearwater	1			dark - Xmas?	
1636	JFP	1			Resembled 1337 entry. M and white back. However, appeared like an extreme example of a molting bird. Head + underwing appeared exactly like JFP.	
1640	Bulwer's	1				
1650	Pterodroma	1	NW			
1810	Bulwer's	1				
1816	Bulwer's	1				
1843					Sunset?	

TB = 10 TB = 108
FO = 10 TO = 28
F = 0 F = 4(??) (30)

	P.2	P.1
W.F	3/3	1/1
SS	1/1	4/4
Sh.	1/1	
JFP	1/1	
BP	3/3	
Pt.	1/1	10/6
TB		1/1
SV		8 1/2
CP		4/3
Ref.		1/1
S/P		4/4
GF		2/1
		108/29

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG -- E

Pelagic Bird
Survey

DATE 19 May 1965
Pg. # 7



time	species	#	dir.	hgt.	remarks	loc.
0600					Big in observation	
0614	RTTB	1			Followed ship for 10 minutes	
0642	BFB	1			Sub-Adult.	
0648	Sooty Tern	1	NE			RTT 3/3
0721	WTTB	1				BFB 1
0740	Wedge-tail	1	SE			ST 58/8
0753	Sooty Shear	1	V			WTT 4/4
0753	Sooty Shear	1	N			W 1
0804	Sooty Tern	1	NW			Sh 1
0809	Sooty Tern	1	E			SS 8/8
0819	Sooty Shear	1	NW			FT 2/2
0820	"	1	NW			S-P 6/2
0847	Sooty Tern	1				PT 4/2
0902	Fairy Tern	1	E			LSP 1
0903	Sooty Tern	1	NE			89/25
0919	Sooty Shear	1	N			
0928	"	1	NW			
0950	WTT	1				
	RTT	1				
1000	Shear-Pet	1				
1012	Sooty Tern	3				
1016	Sooty Shear	1				
1032	Phaethon	1				
F 1040	Sooty Tern	40±3				
	WTT	1				
	RTT	1				
1128	Sooty Shear	1				
1256	WTTB	1				
1326	Sooty Shear	1	N			
1347	Leach's	1				
1400	Sooty Tern					
1500	Phaethon	3				
F 1500	Sooty Tern	10±1			feeding.	
	Shear-Pet	5±1				
	Fairy Tern	1				

RTT 3/3
BFB 1
ST 58/8
WTT 4/4
W 1
Sh 1
SS 8/8
FT 2/2
S-P 6/2
PT 4/2
LSP 1
89/25

coll. 1005 ~~D. Merrill~~ R.W. Merrill

cooks?

little or no wing; considerable flapping; slower wingbeats than normal.

8
150
—
200
32
—
3600

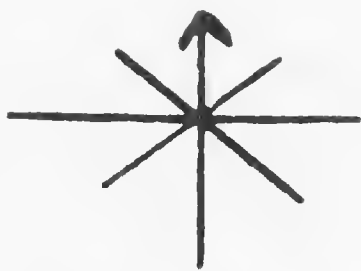


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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG -- E

Pacific Bird Survey

DATE 19 May 1965
Pg. # 2



time	species	#	dir.	hgt.	remarks	loc.
1505	JP Pet	1				
1509	mottled petrel	1				
1510	Cook's Petrel	1				
1522	Shear. Pet	1			odd looking Sooty Shear (noose)	
1525	" Pet	1				
1526	Cook's Pet	1				
1540	Sooty Tern	1				
1603	Fairy Tern	1				
1604	Shear pet	1				
1605	Cook's petrel	1				
1623	Cook's pet.	3				
1624	Cook's Pet.	1				
1646	Leach's S.P.	1				
1650	Pterodroma	1				
1653	Cook's	1	NW			
1653	Sooty Tern	1				
1655	Pterodroma	1	NW			
1700	Sooty Shear	1	NW			
1718	Shear-Pet	1	NW			
1718	"	1	NW			
F 1730	Sooty Tern	12				
1730	Pterodroma	1				
1730	Sooty Shear	1			Cook - Bonin	
1742	"	1				
1747	Pterodroma	1				
1758	Shear. Petrel	2				
1803	Sooty Tern	1				
	Fairy Tern	1				
1812	Sooty Shear	1				
1813	Pterodroma	1				
1813	"	1				
1815	Sooty Shear	1				

QFP 1
MP 1
CP 8/6
SH 2/2
S-P 6/5
ST 15/4
FT 2/2
LSP 1
PT 6/6
SS 4/4
46/31

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG -- E

DATE 20 May 1965
Pg. # 1

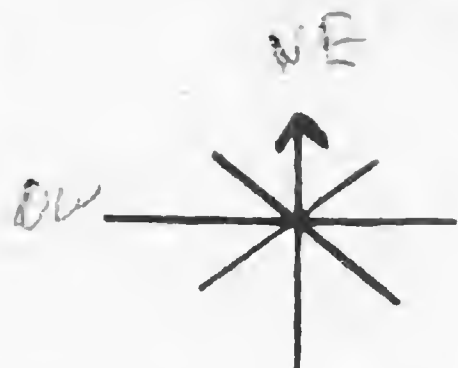


time	species	#	dir.	hgt.	remarks	loc.
0737	Shear-Pet	1			WTS or P4	
0740	Sooty Shear	1	✓			
0858	Mottled Petrel	1				
0933	Red Tail Tropic B.	1				
0936	JFP	1			Large about size of Sooty Shear, had white belly	
0944	Pterodroma	1				
0954	Sooty Shear	1	✓			
0954	Bulwer's	1				
0959	Shear/Pet	1				
1305	Wedgetail	1			M. 1 leg	
1322	JFP	1	NW			
1330	"	1	NW			
1341	Cooks	1	NW			
FF 1345	Sooty Tern	40-45	60±4		Feeding over tuna school; 2 orange tag	
1350	RTTB	1	↓	80±5	4 scoll., 1 streamered	
			↓	95±5	1 imm - subadult	
1420	Bulwers	1	⊙		over fanned Sooties	
1500	Sooty Shear	1				
1540	JFP	1				
1558	Cooks Petrel	1				
1625	Pterodroma	1				
1629	Sooty Tern	4				
1635	Pterodroma	1				
1650	Pterodroma	1				
1757	Sooty Shear	1				
1800	Frigate Great	1			♀	
1854	no observations					

S-P 2/2
SS 4/4
MP 1
RTT 2/2
JFP 1/1
PT 4/4
BP 2/2
W 1
CP 2/2
ST 99/2
GF 1

127/25

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AT SEA DAILY LOG -- E

DATE 21 May 1965
Pg. # 1

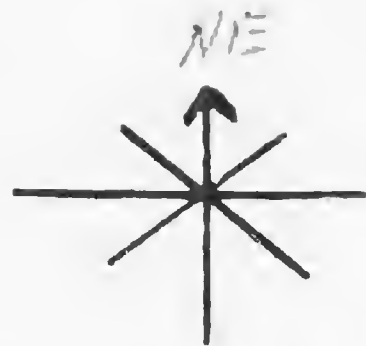
time	species	#	dir.	hgt.	remarks	loc.
0545	Begin observation					
0615	RTTB	1			Dropped into water wounded several miles away	
0630	JFP	3			In loose formation	
0644	Bonin type	1	NW			
0645	Cook/Bonin	1	NW		Dark neck contrast w/ grey back.	
0652	Cook Pet	1	NW			
0657	Sooty(?) Shear	1	N			
0705	Wedge-tail	1	N			
0745	Shear-Pet	1			D.P.	
0753	Pterodroma	1	NW			
0802	Pterodroma	1	NW		No black under wings - crown? much black on head	
0825	"	2	NW		" " " "	
0829	Pterodroma	1	NW		Probably same as above	
0832	"	2	"		joined above	
0845	Pterodroma	2	NW			
0850	"	1	NW			
0854	"	1	NW			
0856	"	1	NW			
0915	Kermadec?	1	NW		No good view of underside but appeared all dark except white in underwing	
0915	Pterodroma	1	NW			
0923	"	1	NW			
0928	Frigate	1				
0931	Pterodroma	1	NW			
0935	"	2	NW			
0937	Shear-Pet	2	NW			
0941	Pterodroma	1				
0950	"	2				
0955	Pterodroma	1				
1000	"	1				
1030	Bonin type	1				
1042	Sooty Shear	1				
1050	Sooty Shear	1				
1054	Bonin type	2				
1103	Pterodroma	1				
1106	Pterodroma	2				
1110	Wedge-tail St.	1				
1116	Bonin type	1				
1138	Pterodroma	1				
1145	Sooty Tern	2				

RTTB 1/1
JFP 3/1
P/B 1/1 Kermadec?
C/B 1/1
Sh 2/2
Int 2/2
S/P 3/3
Pt. 3/4
GF 1/1
SS 1/1
ST 2/1
CP 1/1
BP 1/1

10-49
10-38
11-20

See Remarks

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG -- E

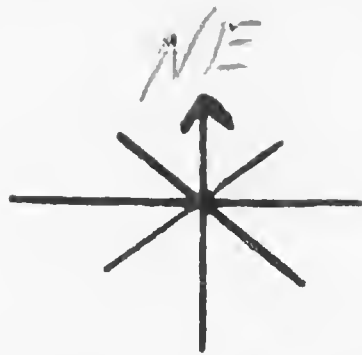
DATE 21 MAY 1965
Pg. # 2

	time	species	#	dir.	hgt.	remarks	loc.
	1204	Sooty Tern	2		125'		
FF	1215	Sooty Tern	60	55		coll. flying high underneath	6 50
		✓ Pale-foot Sh.	1			flock feeding. 7 collected Husted	
		Sooty Sh.	1			2 banded, 1 ot.	
		N. Zealand Sh.	1				
		Wedgetail	2	1p			
	1225	BFB	1			flew through flock, sat on water collected	
	1336	Redtail TB	1				
PF	1415	Sooty Tern	75	1		1 ot 1 coll - Merrill 5 coll - Husted	6 50
		Gr. Frigate	3			Ad. male + females imm - 9 + imm feeding for themselves.	
	1520	Pterodroma	1				
	1543	JFP	1				
	1547	JFP	1				
	1530	Sooty Tern	2				
	1530	"	1			not a flock spread far apart	2 50
	1530	JFP	1				
	1550	JFP	1				
	1550	JFP	1				
	1550	JFP	1				
	1550	JFP	1				
	1558	Sooty Tern	4				
	1558	"	1				
	1559	"	3				
	1559	"	3				
	1600	"	2				
	1601	Pterodroma	1				
	1603	Sooty Tern	1				
	1605	JFP	1				
	1612	Shear pet	1				
	1615	JFP	1				
	1616	White Necked P	1				
	1617	Pterodroma	1				
FF	1620	1 Frigate	3				
		Sooty Tern	150	± 25		17:15 - Sooty Tern coll. D. Husted	3 50
		Wedgetail	2				
		N. Z. Shear	1				
		Sooty Shear	1				

ST 30/12
PFS 1/1
SS 2/2
NZS 2/2
WT 4/2
BFB 1/1
RTTB 1/1
GR 6/2
PF 2/3
JFP 8/8
WNP 1/1
S/P 1/1

probably JFP - white (light) underneath

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AT SEA DAILY LOG -- E

DATE 21 May 1965
Pg. # 3

time	species	#	dir.	hgt.	remarks	loc.
1725	RTT	1				
1726	JFP	1				
1730	JFP	1				
1740	Sooty Terns	120 ± 90				
	Shearwaters	1			3 Sooty Terns call Disturbed	
1800	Sooty Tern	25-30			Left over from previous flock I think P	
					collected Merrill	
					" <u>Hunter</u>	

RTT - 1

JFP - 2/2

ST - 145/14 120/1

SH - 1

382/65
124/4
506/70

0515 Begin observations
0531 Sooty Tern 1

At Sea.
May 22, 1965
Page 1

0542 Pterodroma 3
0545 Wedgetail 2
F 0550 Sooty Tern 6
0559 ATTB 1
0603 Pterodroma 2
0608 Sooty Tern 2
0620 Shear-Petrel 1
0645 Shear-Petrel 2

0705 ATTB 2
0715 Sooty Tern 1
0717 ATTB 1
0725 " 1
0730 Sooty Tern 2
0735 BFB 1
0738 Wedgetail 1
0742 Bulwer's 1
0848 Bonin Pet 1
0931 Slender-billed(?)
Shear. 1

1 coll. retracted

down in water, couldn't find

coll - hustled

SA

0932 Shear-Petrel 1
1 W narrow wings, more bent, all dark, choppier flight than Sooty
little arching - a Sooty/Slender-billed type
NE Large Petrel (?)

ST 12/5
PT 5/2
W 3/2
RTT 5/4
S-P 4/3
BFB 1
BP 1
BIP 1
SH 1

~~37/20~~
33/20

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DIVISION OF BIRDS
AT SEA DAILY LOG -- E



DATE May 22, 1965
Pg. # 2

time	species	#	dir.	hgt.	remarks	loc.
1024	Pterodroma	1			JFP type	
1025	Cooks Pet.	1				
1027	Pterodroma	1				
1050	Sooty Tern	1			coll Merrill	
1112	"	3				
1120	"	2				
1150	Sooty Tern	1				
1210	Phaethon	1				
1310	Wedgetail	1				
1400	BF Albatross	1			coll. Merrill Imm?	
1412	"	1				
1416	Sooty Tern	2				
1431	"	2				
1424	Pterodroma	1			Imm Bonin? No black under wings	
1430	BF Albatross	1			coll D. Husted	
1445	Blue faced B	1				
1448	Pterodroma	1				
1455	Bonin type	1				
1447	"	1				
1500	Cooks Pet	2				
1530	BF Albatross	1				
1531	Wedgetail/Sh	2				
1532	"	1				
1547	Jaeger sp.	1			Imm	
1549	Bonin type	1				
1552	Wedgetails	6			L.P.	
	Sooty Tern	3				
	"	2				
1558	Wedgetail/Sh	1				
1600	Sooty Tern	3				
1602	Sooty Tern	3			up off water L.P.	
1605	Wedgetail/Sh	3				
1625	Sooty Tern	17			1 coll Husted	
	Wedgetails	23			flock over school of 50+ porpoises	

PT 8/8
CP 3/2
ST 26/10
W 22/8
BFA 4/4
BFB 1
J 1
69/31
70/32

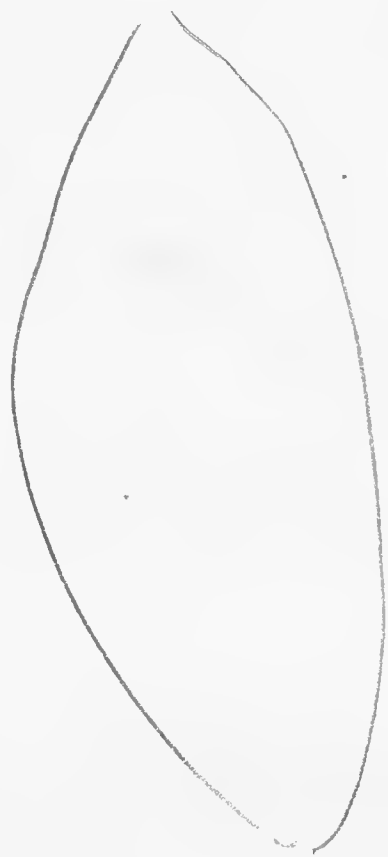
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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG -- E

DATE May 22 1965
Pg. # 3

time	species	#	dir.	hgt.	remarks	loc.
1630	Fish ball	1			R.I.P.S	
1810	Pterodroma	1				
1811	Sooty Tern	2				
1832	Bonin type	1				
1836	" "	2				
1843					Sunset	PT 4/3 ST 2/1



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DIVISION OF BIRDS
AT SEA DAILY LOG -- E



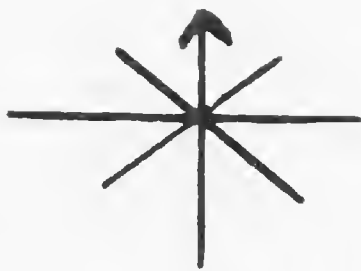
DATE 27 May 65
Pg. # 1

time	species	#	dir.	hgt.	remarks	loc.
0515	Bulwer's Petrel	1				
0516	BFB	3				
0520	BFB	1				
0522	RTTB	1				
0525	Shear-Pet	1				
0526	BFA	1			total	
0534	Wedgetail	3				
0536	Bulwer's SP	1				
0540	Bulwer's Pet.	1				
0550	Sooty Tern	4				
0558	JFP	1				
0605	Sooty Tern	3			1 call <u>Hurled</u>	
0606	Fairy Tern	2				
0608	Wedgetail	2				
0620	Sooty Tern	2				
0621	"	1				
0715	Sooty Shear	1				
0719	Sooty Tern	1				
0720	Sooty Shear	2				
0721	Sooty Tern	1				
0721	Shear-Pet.	1				
0728	Wedgetail	1				
0738	"	1				
0748	BFB	1			Ad.	
0800	Wedgetail	1				
0802	"	1				
0803	Bulwer's	1				
F 0815	Sooty Tern	13			2 call - <u>Hurled</u>	
	Wedgetail	2				
0833	Shear-Pet	1			Wedgetail?	
0840	Sooty Tern	4				
0852	Sooty Tern	100 ⁺			1 call	
	Wedgetail	20 ⁺			2 call <u>Hurled</u> (Wedgetails & Shear X)	
	N.3. Shear	4-5				
0909	Wedgetail	3			1 call <u>Merrill</u> & <u>Hurled</u>	
0915	Big Back Tern	1			" " <u>Merrill</u>	
0927	Wedgetail	8			into flock	
0939	Sooty Tern	2				
1000	Wedgetail	1			call <u>Hurled</u>	

BFA - 7/1
BFB 2/2
RTT 1
S-P 3/3
W 43/18
LSP 1
BP 2/2
ST 131/10
JFP 1
FT 2/1
SS 3/2
GBT 1
N3S 4/4
197/41
201

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SMITHSONIAN INSTITUTION
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AT SEA DAILY LOG -- E



DATE 23 May 65
Pg. # 2

time	species	#	dir.	hgt.	remarks	loc.
1020	Christmas Is?	1				
1021	Sooty Tern	2				
1030	Sooty Tern	752			3 Sooty Tern call Wedge ^{Wedge} & merrill	
	Wedge-tail	152			1 WT call Wedge ^{Wedge} & merrill	
	Shear-Petrel	102			Merrill Bunches of other collected up to 1300	
	Gray back	3				
	Fairy Tern	7				
	Frigate	1			♀	
1130	Skua	1				
1225	Bulwers	1				SA - 1
1351	Bulwers	1				ST 111/8
1400	Merrill's Shear	1				W 32/9
1411	Wedge-tail	1				S-P 13/3
1443	"	1				GBT 2/1
1451	"	1				FT 9/2
1546	Sooty Tern	252				GF 3/2
	Wedge-tail	102			1 call Wedge ^{Wedge}	SK 1
	Fairy Tern	2			1 call Wedge ^{Wedge}	BP 6/6
	Frigate	2				NS 1
1614	Pterodroma	1			cooking on Bonin	PT 2/2
1619	Pterodroma	1			" "	CIS 1
1623	Sooty Tern	2				182/29
1633	Wedge-tail/sh.	1				
1636	Fish call				RIP	
1645	Albatross	1				
1647	Bulwers pet	1				
1724	Bulwers Pet	1				
1738	Wedge-tail	1				
1747	Shear-Petrel	2				
1755	Wedge-tail	1				
1803	Sooty Tern	3				
1808	Sooty Tern	1				
1812	" "	2				
1815	Bulwers Pet	1				
1816	" "	1				
1822	Wedge-tail	1				
1828	Sooty Tern	1				
1836	Shear-Petrel	1			may have been a Herald?	
1840	Unidentified					

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG -- E

DATE 24 May 1965
Pg. # 1

	time	species	#	dir.	hgt.	remarks	loc.
B	0625					begin observations	
	0630	Wedge-tail	1				
	0633	BFA	1			following ship	W 16/14
	0647	Wedge-tail	1				BFA 4/1
	0649	Wedge-tail	1				ST 14/6
	0652	Wedge-tail	1				CN 5/1
	0657	Wedge-tail	1				GBT 1
F	0707	Sooty Tern	3			D.P	BP 7/7
		C. Noddy	5			{ Loose trailing flock	S-P 1
	0708	B.F. Albat	3				Pet 1
	0708	G-B Tern	1			collected PWW.	49/31
	0715	Bulwer	1				
F	0720	Sooty Tern	5				
	0720					4 B-f Albatross now following	
	0730	Wedgetail	1				
	0740	Sooty Tern	1				
	0743	Bulwer's	1				
	0745	Wedgetail	1				
	0747	Sooty Tern	2				
	0749	Shear-Pet	1				
	0751	Sooty Tern	1				
	0753	Wedgetail	2			collected PWW	
	0800	Wedgetail	1				
	0802	Sooty Tern	2				
	0805	Wedgetail	1				
	0810	"	1				
	0812	Bulwer's Pet	1				
	0839	"	1				
	0847	"	1				
	0851	Petrel	1			dark - Bulwers or Sooty Storm	
	0859	Wedge-tail	1				
	0902	Wedge-tail	1				
	0902	Bulwer	1				
	0909	Wedge-tail	2				
	0905	Bulwer's	1				

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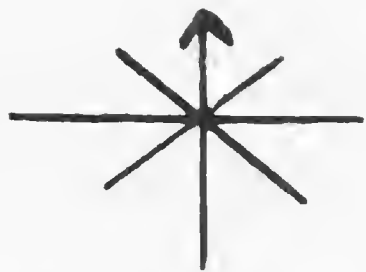
SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG -- E

DATE 24 May
Pg. # 2

	time	species	#	dir.	hgt.	remarks	loc.
	0911	Wedge-tail	1				
	0912	Shear/Petrel	1				
	0917	Bulwer's	1			W 50/6	
	0919	Bulwer's	2			S-P 3/2	
	0921	Wedge-tail	1			BP 11/10	
	0926	Bulwer's	1			C/B 1	
	0934	Cook/Bonin	1			Pet 1	
	0936	Bulwer's(?)	1			GF 1	
	0938	Bulwer's P	1			ST 49/5	
	0940	Bulwer's P	1			SA 2/1	
FF	0942	Frigatebird	1	♀		RFB 3/2	
		Sooty Tern	11	+		Tn 1	
		Shear/Petrel	2	+		CN 28/1	
		Shearwater	2			B/B 1	
		RFB	1			C/S 1	
		Tropicbird	1			152/23	
FF	1000	RFB	2				
		C Noddy	28	IS		1 Ad, 1 Imm.	
		Wedge-tail	36	IS		2 coll. Husted	
		Sooty Terns	20	+			
		Brown Booby	1			Ad.	
	1010	Bulwer's	1				
	1021	Bulwer's	1				
	1023	Wedge-tail	1				
	1027	"	1				
	1029	Bulwer's	1				
	1033	Sooty Tern	2				
	1034	Bulwer's P	1			coll Du Mont	
	1037	Sooty Tern	1				
FF	1045	Sooty Tern	15	+			
		Wedge-tail	10				
	1048	Xmas Is	1				
	1053	Bulwer's P	1			coll Du Mont	

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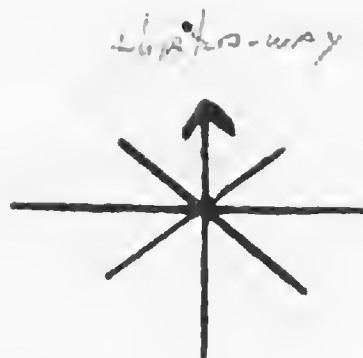
DATE 24
Pg. # 3

time	species	#	dir.	hgt.	remarks	loc.
1110	Sooty Tern	10			2 coll <u>Hunter</u>	
	Wedgetail	15			1 coll <u>Hunter</u>	
	Fairy Tern	1				
	Grey Back Tern	1				
	Newell's Shear	4-1			1 coll <u>Hunter</u>	
	Frigate	1				
1130	Bulwer's Pet	1				ST 24/7
1133	JFP	1				W 24/7
1135	Sooty Tern	7				FT 3/3
	Frigate	1				GBT 1
1140	Bulwer's Pet	2				NS 5/2
1143	Bulwer's Pet	1				GF 2/2
1145	Fairy Tern	1				BP 17/12
1147	Bulwer's Pet	2				QFP 1
1149	Sooty Tern	1				N3S 3/3
1151	Wedgetail	1				CN 1
1153	Wedgetail	3			2 dark phase	BFB 1
1200	NZ Shear	1	NW			82/34
1200	Bulwer's	1				
1203	C. Noddy	1				
1212	Bulwer's	1	N			
1215	"	1	N			
1216	NZ Shear	1	NW			
1217	Wedgetail	1				
1221	Bulwer's	1	N			
1226	BFB	1				
1230	Bulwer's	1			coll - KA	
1231	Newell's	1				
1232	Sooty Tern	2				
1300	Bulwer's Pet.	2				
1301	Wedgetail	1				
1301	Sooty Tern	1			coll - Merrill	
1311	Wedgetail/Sh.	2				
1320	Bulwer's	2			coll ① Hunter	
1331	Sooty Tern	2				
1333	New Zealand Sh.	1				
1341	Wedgetail Sh.	1				
1342	Bulwer's Pet	2				
1343	Sooty Tern	1				
1343	Fairy Tern	1				

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG -- E

DATE 24 Nov 1965
Pg. # 4



time	species	#	dir.	hgt.	remarks	loc.
1345	Sooty Tern	2				
1346	Bulwer's Pet	1				
1349	Common Noddy	1				
1348	Pterodroma	1				
1350	Bulwer's Pet	2				ST 343/7
1353	Bulwer's Pet	2				BP 6/4
1355	Sooty Tern	1				CN 830/6
1356	Com. Noddy	2				PT 1
1357	Howell's	1				NS 3/3
1359	Sooty Tern	3			1 coll	Tern 1
1402	Howell's Shear	1				W. 3852/4
1408	Wedge-tail	1				BFB 3/1
1409	Wedge-tail	1				RFB 20/1
1409	Bulwer's	1				BIB 5/1
1409	Sooty Tern	2				FT 2/1
1415	C. Noddy	1				BGN 2/1
1420	Tern	1			Light beige color - not Frigate	4493/22
F. 1425	Wedge-tail	350 ± 50			3 coll - Merrill	5068/22
	Blue face	34				
	Red-foot	20				
	Brown	5				
	Noddy C.	253			→ 253? or 25	
	Sooty T	253				
	Fairy T	2				
	Blue-G Noddy	2			3 wedgetails	
	Blue-G Noddy	2			4 col. Vorked	
1510	C. Noddy	1				
1515	Howell's Sh.	1				
1519	Sooty Tern	100				
1525	Wedge-tails	3500+				
	Sooty Tern	300+				
	C. Noddy Tern	800+				

Passing Kauai

around island, this estimate is probably too small
many in T and Noddy's sitting on water

SI-MNH-958e
7-28-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG -- E



DATE 24 May 1965
Pg. # 5

time	species	#	dir.	hgt.	remarks	loc.
1540	Sooty Tern	2			Most of the numbers of wedgetails are widespread and not tight flocks.	
1542	Greyback Tern	4				
1545	R F Boob	1				
1546	C. Noddy	3				
1547	Wedgetails	15				
	Bulwer's pet	1				
F 1550	Wedgetails	150				
	C Noddy	1				
	Sooty tern	10				
	Hw Noddy	3				
1552	Sooty Terns	5				
1553	Wedgetails	30				
1554	Greybacks	3				
1556	C. Noddy	2				
1558	Wedgetails	4				
F 1559	Wedgetails	45			Sitting on water	
1600	Sooty terns	2				
1603	Bulwer's	1				
1604	Sooty Tern	2				
F 1607	Wedgetails	8				
F 1612	Greybacks	5				
1613	Bulwer's	2				
1615	Sooty tern	5				
1616	Wedgetails	10				
F 1618	Greyback T.	5				
1619	Wedgetails	5				
1620	Bulwer's	1				
1621	C Noddy	2				
1622	Fairy Tern	1				
1624	Sooty tern	1			still with us	
1626	Albatross	2-4				
F 1627	Wedgetail	5				
1630	Bulwer	1				
1632	Greyback	3				
1640	Bulwer's	1				

ST 27/7
GBT 20/5
RFB 1
CN 8/4
W 272/9
BP 7/6
HN 3
FT 1

339/30

DATE 24 MAR 1965
Pg. # 6

[illegible]

SI-MNH-958e
7-28-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG -- E



DATE 29 May
Pg. # 7

time	species	#	dir.	hgt.	remarks	loc.
1845	Fr. Frigate	3				
1845	Bulwer's	1				
1845	WT	20				
1845	WFF	3				
1855	Wedge-tail	2				
1855	Wedg.	2				
1855	Newell's	10				
1855	Bulwer's	3				
1900	Haw Nod	4				
1900	Bulwer's	9				
1900	Wedget	2				
1900	Newell's	12				
1903	Leach's	1				
	Harcourt's	1				
1910	Bulwer's	5				
	Wedgetail	2				
End observation 1915						

BM = 3
SP = 1-3-4-5
WT = 20-2-2-2
WFF = 3
WED = 2
NS = 10-4
HAW = 4
WSP = 1

64
71

DATE TUES 4 MAY 1965

Time at sunrise = Position at sunrise =

Time at sunset = 1855 Position at sunset = $\angle 20^{\circ}-47'N, \lambda 157^{\circ}-35'W$

Miles traveled from 0000 hours to sunrise = ~~27.17~~

Miles traveled from ^{HONO}sunrise to sunset = 40 mi

Miles traveled from sunset to 2400 hours = 50 mi

	TIME OF FIX	TYPE OF FIX	LONGITUDE W	LATITUDE N
1.	1918	Vis. ϕ s	157-23	20-45
2.				
3.				
4.				
5.				
6.				

DATE WED 5 MAY 1965

Time at sunrise = 0554 Position at sunrise = $\angle 19^{\circ}-19'N \lambda 156^{\circ}-12'W$

Time at sunset = 1842 Position at sunset = ~~17-45N~~ $\lambda 154^{\circ}-54'W$

Miles traveled from 0000 hours to sunrise = 63

Miles traveled from sunrise to sunset = 123 mi.

Miles traveled from sunset to 2400 hours = 48 mi.

	TIME OF FIX	TYPE OF FIX	LONGITUDE W	LATITUDE N
1.	0205	LORAN	156-38'	19-52'
2.	0800	VIS/RAD	155-58'	19-01'
3.	1130	LORAN	155-38'	18-37'
4.	1500	LORAN	155-17	18-10'
5.	1840	LORAN	154-54' 17-45'	17-45'
6.	2315	LORAN	154-29'W	17-13'

DATE THUR. 6 MAY 1965

Time at sunrise = 0550 Position at sunrise = $16^{\circ}-27'N$ $153^{\circ}-48'W$
 Time at sunset = 1830 Position at sunset = $14^{\circ}-54'N$ $152^{\circ}-37'W$
 Miles traveled from 0000 hours to sunrise = 53 mi.
 Miles traveled from sunrise to sunset = 114
 Miles traveled from sunset to 2400 hours = 54

	TIME OF FIX	TYPE OF FIX	LONGITUDE W	LATITUDE N
1.	0300	LORAN	$154-10$	$16-45$
2.	0800	"	$153-37$	$16-12$
3.	1200	"	$153^{\circ}-12$	$15^{\circ}-41$
4.	1500	"	$152^{\circ}-54$	$15^{\circ}-20$
5.	1924	"	$152^{\circ}-27$	$14^{\circ}-46$
6.	2200	"	$152^{\circ}-08$	$14^{\circ}-30$

DATE FRI 7 MAY 1965

Time at sunrise = 0543 Position at sunrise = L $1336'N$ λ $151^{\circ}-25'W$
 Time at sunset = 1817 Position at sunset = L $12^{\circ}-08'N$ λ $150^{\circ}-19'W$
 Miles traveled from 0000 hours to sunrise = 48
 Miles traveled from sunrise to sunset = ~~46~~ 117 mi. Sun 21 21 20
21
 Miles traveled from sunset to 2400 hours = 51 mi.

	TIME OF FIX	TYPE OF FIX	LONGITUDE W	LATITUDE N
1.	0300	LORAN	$151^{\circ}-42'$	$13^{\circ}-56'$
2.	0615	"	$151^{\circ}-22'$	$13^{\circ}-33'$
3.	1200	LORAN	$150^{\circ}-49'$	$12^{\circ}-53'$
4.	1500	LORAN/①	$150^{\circ}-32'$	$12^{\circ}-36'$
5.	1906	LORAN	$150^{\circ}-06'$	$12^{\circ}-02'$
6.	2200	"	$149^{\circ}-58'$	$11^{\circ}-41'$

DATE SAT 8 MAY 1965

Time at sunrise = 0538 Position at sunrise = $10^{\circ}-45'N, \lambda 149^{\circ}-16'W$

Time at sunset = 1815 Position at sunset = $9^{\circ}-36'N, \lambda 150^{\circ}-18'W$

Miles traveled from 0000 hours to sunrise = 52 mi.

Miles traveled from sunrise to sunset = 101

Miles traveled from sunset to 2400 hours = 57

	TIME OF FIX	TYPE OF FIX	LONGITUDE W	LATITUDE N
1.	0300	LORAN	$149^{\circ}-28'$	$10^{\circ}-46' - 11^{\circ} 06'$
2.	0500	STARS	$149^{\circ}-18'$	$10^{\circ}-49'$
3.	1000	O/LORAN	$149^{\circ}-23'$	$10^{\circ}-29'$
4.	1730	Sun & Moon	$150^{\circ}-14'$	$9^{\circ}-40'$
5.	1900	Star/LORAN	$150^{\circ}-22'$	$9^{\circ}-31'$
6.	2232	LORAN	$150^{\circ}-46'$	$9^{\circ}-06'$

DATE SUN 9 MAY 1965

Time at sunrise = 0548 Position at sunrise = $8^{\circ}-13'N, 151^{\circ}-38'W$

Time at sunset = 1821 Position at sunset = $8^{\circ}-14'N, 152^{\circ}-37'W$

Miles traveled from 0000 hours to sunrise = 59

Miles traveled from sunrise to sunset = 98

Miles traveled from sunset to 2400 hours = 54

	TIME OF FIX	TYPE OF FIX	LONGITUDE W	LATITUDE N
1.	0320	LORAN	$151^{\circ}-23'$	$8^{\circ}-31'$
2.	0724	"	$151^{\circ}-46'$	$8^{\circ}-06'$
3.	1200	O/LAN	$152^{\circ}-16'$	$8^{\circ}-01'$
4.	1900	LORAN	$152^{\circ}-34'$	$8^{\circ}-16'$
5.	2312	LORAN	$152^{\circ}-04'$	$8^{\circ}-47'$
6.				

DATE MON 10 MAY 1965

Time at sunrise = 0546 Position at sunrise = ~~1528~~ L 9°-33'N λ 157°-~~32~~²⁸'W
 Time at sunset = 1828 Position at sunset = L-9°-35'N λ 153°-47'W
 Miles traveled from 0000 hours to sunrise = 51 mi
 Miles traveled from sunrise to sunset = 137 mi
 Miles traveled from sunset to 2400 hours = 61 mi

	TIME OF FIX	TYPE OF FIX	LONGITUDE W	LATITUDE N
1.	0300	LORAN	151°-45'	09°-17'
2.	0700	"	151°-42'	9°-34'
3.	1116	SUN	152°-25'	9°-35'
4.	1500	"	153°-07'	9°-35'
5.	1848	LORAN	153°-51'	9°-35'
6.	2300	"	154°-35'	9°-22'

DATE TUES 11 MAY 1965

Time at sunrise = 0604 Position at sunrise = L 8°-50'N λ 155°-45'W
 Time at sunset = 1841 Position at sunset = L 8°-10'N λ 157°-15'W
 Miles traveled from 0000 hours to sunrise = 65
 Miles traveled from sunrise to sunset = ~~103~~
 Miles traveled from sunset to 2400 hours = 62

	TIME OF FIX	TYPE OF FIX	LONGITUDE W	LATITUDE N
1.	0300	LORAN	155°-13'	9°-04'
2.	0730	"	155°-48'	8°-43'
3.	1200	SUN/LAN	156°-33'	8°-27'
4.	1517	SUN/LORAN	156°-53'	8°-05'
5.	1900	MOON/LORAN	157°-17'	8°-10'
6.	2100	STARS	157°-39'	8°-15'

DATE WED 12 MAY 1965

Time at sunrise = 0518 Position at sunrise = L 8°-13'N λ 159°-17'W

Time at sunset = 1758 Position at sunset = L 8°-11'N λ 161°-17'W

Miles traveled from 0000 hours to sunrise = 60

Miles traveled from sunrise to sunset = 118

Miles traveled from sunset to 2400 hours = 63

	TIME OF FIX	TYPE OF FIX	LONGITUDE W	LATITUDE N
1.	0305	LORAN	158°-50'	8°-16'
2.	0700	"	159°-33'	8-14
3.	1200	O/LAN	160°-20'	8°-12'
4.	1500	O/LORAN	160°-46'	8°-12'
5.	1700	"	161°-07'	8°-10'
6.	2300	"	162°-10'	8°-07'

DATE THUR 13 MAY 1965

Time at sunrise = 0535 Position at sunrise = L - 8°-05'N, λ 163°-21'W

Time at sunset = 1814 Position at sunset = L - 9°-31'N, λ 165°-06'W

Miles traveled from 0000 hours to sunrise = 60

Miles traveled from sunrise to sunset = 141

Miles traveled from sunset to 2400 hours = 64

	TIME OF FIX	TYPE OF FIX	LONGITUDE W	LATITUDE N
1.	0305	LORAN	162°-54'	8°-05'
2.	0530	*LORAN	163°-21'	8°-05'
3.	1000	O/LORAN	163°-58'	8°-24'
4.	1830	STARS	165°-04'	9°-34'
5.	2200	STARS	165°-25'	10°-06'
6.				

DATE FRI. 14 MAY 1965

Time at sunrise = 0544 Position at sunrise = $11^{\circ}-12'N$, $166^{\circ}-15'W$
 Time at sunset = 1829 Position at sunset = $13^{\circ}-08'N$, $167^{\circ}-43'W$
 Miles traveled from 0000 hours to sunrise = 60 mi
 Miles traveled from sunrise to sunset = 144
 Miles traveled from sunset to 2400 hours = 62

	TIME OF FIX	TYPE OF FIX	LONGITUDE W	LATITUDE N
1.	0300	LORAN	$166^{\circ}-04$	$10^{\circ}-45''$
2.	1000	O/LORAN	$166^{\circ}-45$	$11^{\circ}-51$
3.	1200	LAN/O	$166^{\circ}-56$	$11^{\circ}-57$
4.	1500	O/LORAN	$167^{\circ}-20$	$12^{\circ}-36$
5.	1900	LORAN	$167^{\circ}-47$	$13^{\circ}-12$
6.				

DATE SAT. 15 MAY 1965

Time at sunrise = 0547 Position at sunrise = $14^{\circ}-13'N$ λ $169^{\circ}-04W$
 Time at sunset = 1841 Position at sunset = $12^{\circ}-37N$ λ $170^{\circ}-42W$
 Miles traveled from 0000 hours to sunrise = 62 mi
 Miles traveled from sunrise to sunset = 136
 Miles traveled from sunset to 2400 hours = 54

	TIME OF FIX	TYPE OF FIX	LONGITUDE W	LATITUDE N
1.	0400	LORAN	$168^{\circ}-50$	$14^{\circ}-26$
2.	0930	O/LORAN	$169^{\circ}-32$	$13^{\circ}-47$
3.	1200	O/LAN	$169^{\circ}-48$	$13^{\circ}-26$
4.	1520	LORAN/O	$170^{\circ}-15$	$13^{\circ}-02$
5.	1930	*LORAN	$170^{\circ}-46$	$12^{\circ}-31$
6.	2300	STARS	$171^{\circ}-12$	$12^{\circ}-04$

DATE SUN. 16 MAY 1965

Time at sunrise = 0600 Position at sunrise = L 13°-02' N λ 171°-30' W
 Time at sunset = 1840 Position at sunset = L 14°-34' N λ 170°-03' W
 Miles traveled from 0000 hours to sunrise = 70
 Miles traveled from sunrise to sunset = 125
 Miles traveled from sunset to 2400 hours = 52

	TIME OF FIX	TYPE OF FIX	LONGITUDE W	LATITUDE N
1.	0300	LORAN	171°-44'	12°-35'
2.	0800	O/LORAN	171°-16'	13°-15' N
3.	1200	O/LAN	170°-46'	13°-42' N
4.	1924	LORAN	169°-57'	14°-38' N
5.	2300	LORAN	169°-34'	15°-00'
6.				

DATE MON 17 MAY 1965

Time at sunrise = 0553 Position at sunrise = L 15°-09' N λ 170°-30' W
 Time at sunset = 1848 Position at sunset = L 13°-36' N λ 172°-13' W
 Miles traveled from 0000 hours to sunrise = 71
 Miles traveled from sunrise to sunset = 140
 Miles traveled from sunset to 2400 hours = 57

	TIME OF FIX	TYPE OF FIX	LONGITUDE W	LATITUDE N
1.	0300	LORAN	170°-07'	15°-35'
2.	0600	"	170°-32'	15°-08'
3.	1200	"	171°-18'	14°-25'
4.	1600	LORAN	171°-50'	13°-51'
5.	2200	"	172°-39'	13°-28'
6.				

DATE TUES 18 MAY 1965

Time at sunrise = 0603 Position at sunrise = L 14°-12' N, λ 172°-43'
 Time at sunset = 1846 Position at sunset = L 15°-50' N, λ 174°-04' W
 Miles traveled from 0000 hours to sunrise = 52 mi
 Miles traveled from sunrise to sunset = 122
 Miles traveled from sunset to 2400 hours = 54

	TIME OF FIX	TYPE OF FIX	LONGITUDE W	LATITUDE N
1.	0430	LORAN	172°-43'	14°-11'
2.	0800	⊙/LORAN	172°-17'	14°-37'
3.	1200	⊙/LAN/LORAN	171°-51'	15°-06'
4.	2000	LORAN	170°-54'	15°-59'
5.	2300	LORAN	170°-46'	16°-20'
6.				

DATE WED 19 MAY 1965

Time at sunrise = 0552 Position at sunrise = L 16°-16' N λ 171°-42' W
 Time at sunset = 1853 Position at sunset = L 14°-51' N λ 173°-20' W
 Miles traveled from 0000 hours to sunrise = 64
 Miles traveled from sunrise to sunset = 126
 Miles traveled from sunset to 2400 hours = 51

	TIME OF FIX	TYPE OF FIX	LONGITUDE W	LATITUDE N
1.	0300	LORAN	171°-16' W	16°-40' N
2.	0900	⊙/D/LORAN	172°-06'	15°-54'
3.	1235	⊙/LORAN	172°-39'	15°-31'
4.	1510	⊙/LORAN	172°-51'	15°-21'
5.	2200	LORAN	173°-44'	14°-38'
6.				

DATE THURS. 20 MAY 1965

Time at sunrise = 0606 Position at sunrise = L 15°-28'N, λ 173°-48'W

Time at sunset = 1854 Position at sunset = L 16°-48'N λ 172°-29'W

Miles traveled from 0000 hours to sunrise = 56 mi

Miles traveled from sunrise to sunset = 110 mi

Miles traveled from sunset to 2400 hours = ~~155~~ 47

	TIME OF FIX	TYPE OF FIX	LONGITUDE W	LATITUDE N
1.	0400	LORAN	174°-01	15°-15'
2.	0800	O/LORAN	173°-36	15°-39
3.	1100	"	173°-14	15°-59
4.	1500	O/LORAN	172°-55	16°-20
5.	1848	LORAN	172°-29	16°-47
6.	2300	LORAN	172°-03	17°-19

DATE FRI 21 MAY 65

Time at sunrise = 0549 Position at sunrise = L 18°-00'N, λ 171°-17'W

Time at sunset = 1850 Position at sunset = L 19°-02'N λ 170°-08'W

Miles traveled from 0000 hours to sunrise = 51

Miles traveled from sunrise to sunset = 90

Miles traveled from sunset to 2400 hours = 53

	TIME OF FIX	TYPE OF FIX	LONGITUDE W	LATITUDE N
1.	0300	LORAN	171°-35	17°-46
2.	0530	Stars/Loran	171°-20	17°-57
3.	0645	Sun/moon/Loran	171°-11	18°-05
4.	1200	O/LORAN	170°-30	18°-43
5.	1848	LORAN	170°-08	19°-02
6.	2300	LORAN	169°-35	19°-33

DATE SAT 22 MAY 1965

Time at sunrise = 0536 Position at sunrise = L 20°-26N λ 168-44

Time at sunset = 1843 Position at sunset = L 21°-34N λ 167-00

Miles traveled from 0000 hours to sunrise = 63

Miles traveled from sunrise to sunset = 117

Miles traveled from sunset to 2400 hours = 49

	TIME OF FIX	TYPE OF FIX	LONGITUDE W	LATITUDE N
1.	0500	Star/4024/Loran	168°-49	20°-22
2.	1100	①/LORAN	168°-03	21°-01
3.	1600	LORAN	167°-27	21°-31
4.	2117	"	166°-35	21°-35
5.	2300	"	166-18	21-37
6.				

DATE SUN 23 MAY 1965

Time at sunrise = 0518 Position at sunrise = ~~21°-37'N~~ L 21°-37'N λ 165°-13W

Time at sunset = 1837 Position at sunset = L 21°-39N λ 163°-49W

Miles traveled from 0000 hours to sunrise = 49.51

Miles traveled from sunrise to sunset = 78

Miles traveled from sunset to 2400 hours = 45

	TIME OF FIX	TYPE OF FIX	LONGITUDE W	LATITUDE N
1.	0325 ⊗	LORAN	165°-32	21°-37
2.	1004 ⊗	LORAN	164°-38	21°-35
3.	1205 ⊗	LORAN	164°-37	21°-34'
4.	1712 ⊗	"	164°-02	21-38
5.	2300 ⊗	"	163°-06	21-39
6.				

DATE MON 24 MAY 1965

ALL TIMES WHISKY AFTER 0500

Time at sunrise = 0605 Position at sunrise = L 21°-45' N λ 161°-59' W

Time at sunset = 1854 Position at sunset = L 21°-39' N λ 160°-02' W

Miles traveled from 0000 hours to sunrise = 56

Miles traveled from sunrise to sunset = 110

Miles traveled from sunset to 2400 hours = 57

	TIME OF FIX	TYPE OF FIX	LONGITUDE W	LATITUDE N
1.	0315	LORAN	162°-27	21°-41
2.	0715	"	161°-48'	21°-42
3.	1200	⊙/LORAN	161°-05	21°-46'
4.	1624	VISUAL	160°-29	21°-35
5.	1930	LORAN	159°-56	21°-38
6.	2255	LORAN	159°-20	21-31

DATE TUES. 25 MAY 1965

Time at sunrise = Position at sunrise =

Time at sunset = Position at sunset =

Miles traveled from 0000 hours to sunrise =

Miles traveled from sunrise to sunset =

Miles traveled from sunset to 2400 hours =

	TIME OF FIX	TYPE OF FIX	LONGITUDE W	LATITUDE N
1.				
2.				
3.				
4.				
5.				
6.				

2390

Amerson

PRELIMINARY REPORT

AT-SEA

SURVEY

MAY - 1965

This report summarizes the results of the At-Sea Survey in May, 1965. Smithsonian personnel aboard the USNS Shearwater included Kenneth Amerman (Biologist in charge), Paul DuMont, Dayle Husted, Richard Merrill and Paul Woodward.

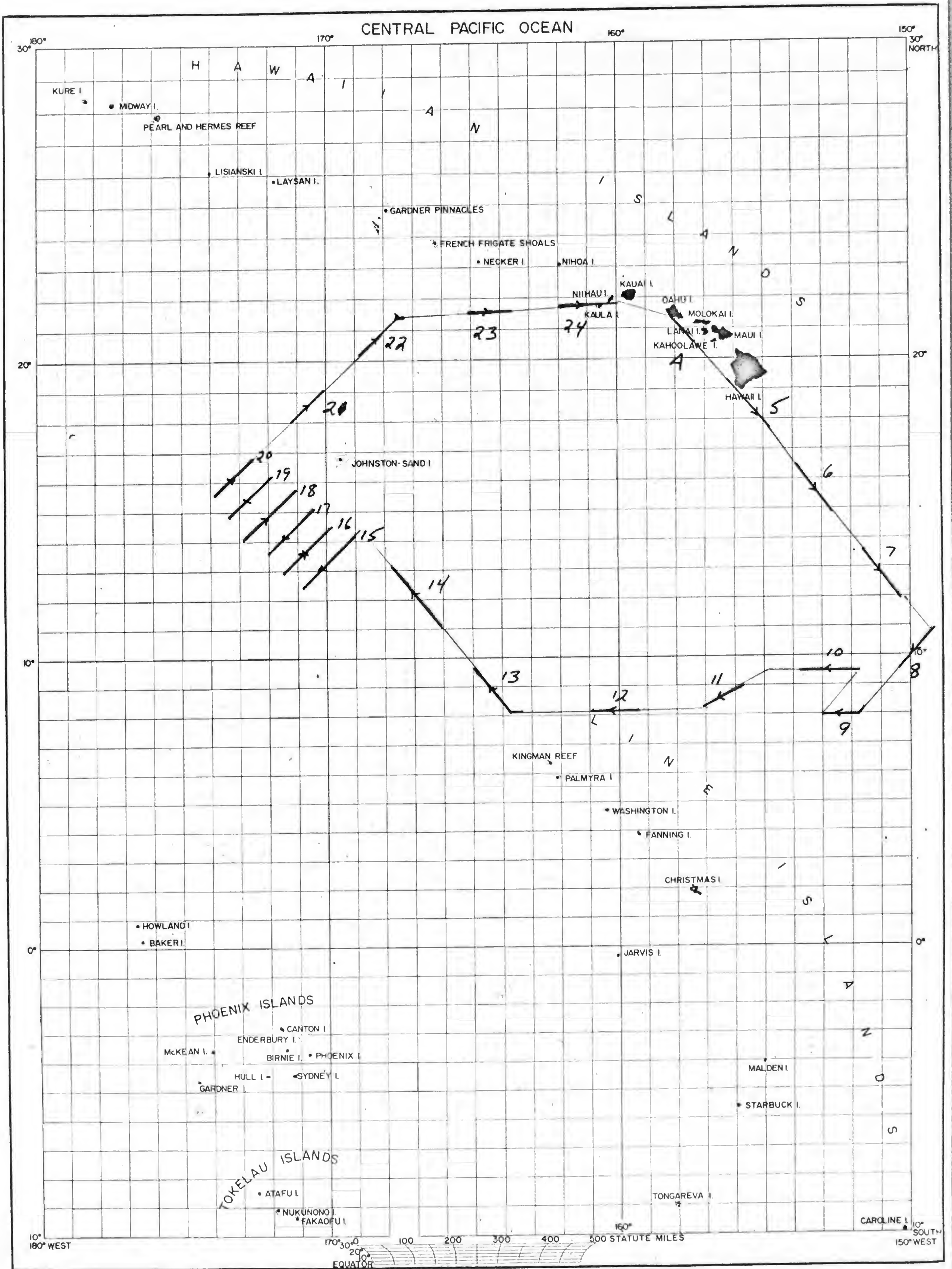
A total of 2,390 miles was traveled during 250.3 hours of daylight observations. Of this total, 759 miles were in the Smithsonian Grid. The cruise followed the general course traveled during April, with the exception that the return to Oahu from the Grid was altered in order to sample the area between Johnston Island and French Frigate Shoals.

A total of 157 birds of 19 species was collected. These included the first New Zealand Shearwater collected by the Pacific Project and the first Christmas Island Shearwater and Gray-backed Tern collected at sea. Only about 20 out of the 157 were collected from the small skiff, which proved so successful last trip, due to generally rougher seas and mechanical difficulties.

Only 582 birds were observed within the Smithsonian study area, less than half the number seen in April. All species groups within the Grid showed a drop in numbers, but the reduction was most marked in Sooty Terns. This scarcity of birds was possibly due to a two-day storm which passed through the study area May 16 and 17.

AT-Sea Survey, May 1965

— Sunrise - Sunset
— Sunset - Sunrise



The principal migrant species (Sooty Shearwater, New Zealand Shearwater, and one or more small unidentified Pterodroma) showed a nearly uniform flight direction to the northwest.

Numbers of birds seen decreased away from the main Hawaiian Islands, then increased sharply in the most easterly area (11 degrees North - 149 degrees West) visited. Moderate numbers were present along the course between 8 degrees North and 10 degrees North with a peak concentration on May 11. Few birds were seen on the route between Palmyra and Johnston Islands, although this course followed a subterranean ridge ranging in depths between 400 and 600 fathoms, in contrast to depths of 2000 fathoms over most of the area. The numbers of birds appeared to be primarily a function of distance from land this month, with a gap midway between Johnston and the Line Islands indicating that birds from these two areas mix very little at sea.

Johnston Island birds were observed mainly on May 21, north and west of the island (Table 9). Numbers declined the following day, then increased again as the Leeward Islands were approached. This again suggests that the birds from the two areas remain segregated at sea, though perhaps not to as great an extent as in the previous case due to the lesser distance.

Since the large numbers of birds present in the vicinity of the high Hawaiian Islands greatly weighted the figures of total birds, birds/mile and birds/sighting, these figures were also calculated excluding the first and last days, to give a more representative picture in the tables of the pelagic bird distribution observed during the May At-Sea Survey.

SPECIES ACCOUNTS

Laysan Albatross. One observed southeast of the island of Hawaii May 5, and 2 seen south of Kauai on May 24.

Black-footed Albatross. The first two birds were encountered about 200 miles SW of French Frigate Shoals May 22. Fifteen were seen; 2 were collected.

Wedge-tailed Shearwater. The only species seen every day of the cruise.

Numbers declined with distance from the Hawaiian Islands, then increased in the area north and east of the Line Islands, this latter population being almost entirely dark-phase birds. Only 20 were seen within the Grid. Huge numbers were present around Kaula and Niihau, in flocks of 2 to 3 thousand. Twenty-seven were collected.

Christmas Island Shearwater. Three were seen near the Hawaiian Islands, and 7 were sighted on May 11, the day of peak numbers of several species in the southern area. One was collected.

Audubon's Shearwater. Six birds were believed to this species but considerable confusion exists in the separation of this species and the similarly-appearing Newell's Shearwater.

Newell's Shearwater. Apparently distributed randomly over the first half of the route. Only 2 were seen in the Grid, but 87 were found the last day in the immediate vicinity of Niihau Island. Some birds identified as Newell's Shearwaters north and east of the Line Islands may have been Audubon's Shearwaters. The presence there of moderate numbers of Newell's, most of which were flying south and southwest, is not to be expected at this time since this species returns to its breeding grounds now. The possibility also exists that they might be Manx Shearwaters.

Sooty Shearwater. Numbers dropped off sharply over the last month. This month they were randomly distributed over the entire area. Fewer birds were seen in mixed flocks than in April.

Slender-billed Shearwater. One bird identified as this species and few others thought possibly to be Slender-bills were recorded at 8 degrees North.

Pale-footed Shearwater. One bird was seen and collected in a feeding flock northwest of Johnston Island May 21.

New Zealand Shearwater. One bird was collected from a feeding flock May 23, and 5 others were identified in the area between Johnston Island and Oahu.

Juan-Fernandez Petrel. Found in greatest numbers in the easternmost area of the route, May 8-11, and found in fairly constant numbers over the rest of track. Eight were collected. Most were molting.

White-necked Petrel. Two were identified in the southern part of the trip, and 1 or 2 were collected.

Kermadec Petrel. Two were seen on May 7 and at least two were sighted in the Grid on May 17 after the storm. The latter pair were both dark-phase individuals.

Phoenix Island Petrel. Two were recorded shortly before sunset on May 9.

Dark-rumped Petrel. One bird was identified as this species just south of the island of Hawaii. Others may have been observed.

Mottled Petrel. Three birds were recorded, all in the Grid. All were flying northwest.

Pterodroma spp. Included in this grouping are Cook's Petrel, Bonin Island Petrel and an unidentified species closely resembling both previous species, but lacking the heavy black underwing borders. It resembled a small Juan Fernandez Petrel. All three types were headed predominately northwest as in April. This indicates that the Bonin Island Petrels are southern migrants rather than individuals from the Leeward Hawaiian chain, in company with other migrants from the same area.

Bulwer's Petrel. Found in moderate numbers around the high Hawaiian Islands and in low numbers elsewhere. This species appears to be nearing the end of its return to breeding areas. Five were collected.

Leach's Storm Petrel. Low numbers were present in the eastern and southern parts of the route, but few were seen thereafter. Numbers declined from 35 of last month to 5 this month in the Grid. Most were flying north. One was collected.

White-throated Storm Petrel. A White-bellied storm petrel probably of this species was seen at a distance on May 9.

Red-tailed Tropicbird. Uniformly distributed in low numbers throughout the trip. Five were collected.

White-tailed Tropicbird. Less randomly distributed than the preceding species, with few being seen in the latter half of the trip. Three were collected.

Blue-faced Booby. Found in moderate numbers between 8 degrees North and 10 degrees North, usually not participating in mixed flocks. The largest numbers were seen May 11, in company with high numbers of Wedge-tailed Shearwaters and Sooty Terns. A total of 29 was collected, 7 with bands from Jarvis Island. The single booby recorded in the Grid was of this species.

Brown Booby. Twelve were seen, 9 of them off Kaula and Niihau May 24.

Red-footed Booby. A total of 51 was seen around Oahu the first day and 132 were sighted off Kaula and Niihau Islands May 24. Only one bird was seen away from land, 120 miles NW of Palmyra on May 13.

Greater Frigatebird. The majority of this species were seen north and west of Johnston Island, May 20 and 21, probably birds from that island.

Sooty Tern. Most birds collected north and east of the Line Islands did not have brood patches while those from northern areas did. Immature birds were present in the southern area as well. Three of these were collected, one apparently molting into adult plumage. Only 327 were observed in the Grid. A total of 64 was collected.

Gray-backed Tern. Observed only south of the leeward Hawaiians, including moderate numbers around Kaula and Niihau Islands.

Common Noddy. Present only in the vicinity of the main Hawaiian Islands.

Large numbers were mixed with Wedge-tailed Shearwaters off Kaula and Niihau Islands.

Blue-gray Noddy. Present only near Kaula and Niihau Islands.

Hawaiian Noddy. Present only near Kaula and Niihau Islands.

Fairy Tern. Scattered observations with a slight concentration south of Nihoa and around Kaula and Niihau Islands.

Arctic ? Tern. One individual thought to be this species was seen on May 9.

The numbers recorded on the BCF Townsend Cromwell cruise in April compared to those seen on At-Sea cruises indicate that most of the migrants pass to the east of the Smithsonian Grid.

Skua. Two observations on May 5, south of the island of Hawaii, of Skuas chasing Wedge-tailed Shearwaters in feeding flocks. Another individual was seen in the vicinity of a feeding flock May 23.

Pomarine Jaeger. Nine were identified, mostly scattered individuals, in the east portion of the route. None were seen around Oahu, indicating that these birds have already left the area and birds from more southerly wintering areas are now passing through the central Pacific, mostly to the east of the Smithsonian Grid. All were heading north.

Long-tailed Jaeger. Six were identified and 2 believed to be of this species were collected. Observed only on the southeast leg in the same area as the preceding species, also flying to the north.

TABLE I. Summary of Daily Observations Outside Grid. May 1965

Date	Minutes of Observation	Miles Travelled	Total No. Birds	Birds/ Sighting	Birds/ Mile	No. of Species	No. of Flocks
May 4	265	40	1243	10.02	31.08	11	12
5	768	123	256	2.24	2.08	14	4
6	760	114	54	1.54	0.57	11	1
7	754	117	88	2.44	0.75	12	1
8	757	101	300	1.99	2.97	12	3
9	753	98	475	5.65	4.85	13	5
10	742	137	134	1.86	0.98	10	1
11	757	103	654	4.77	6.35	13	9
12	760	118	179	2.21	1.52	12	6
13	759	141	145	1.58	1.03	14	1
14	765	144	42	2.47	0.29	5	2
21	781	90	506	7.33	5.62	11	4
22	787	117	109	1.95	0.93	9	3
23	799	78	383	5.47	4.91	16	4
24	790	110	9899	56.24	90.00	19	33
Total, Oahu to Grid	7840	1236	3580	3.77	2.09	28	43
Average	713	112	325	3.34	4.77	11	4
Total, Grid to Oahu	3157	395	10897	29.37	27.59	25	44
Average	789	99	2724	17.75	25.37	14	11
Total Outside Grid	10997	1631	14477	10.96	8.88	35	87
Average	733	109	965	7.25	10.26	12	6
Total Outside Grid May 5-23 only	9922	1481	3355	3.29	2.77	35	42
Average	763	114	257	3.19	2.53	12	3

TABLE 2. Summary of Daily Observations Inside Grid, May 1965

Date	Minutes of Observation	Miles Travelled	Total No. Birds	Birds/ Sighting	Birds/ Mile	No. of Species	No. of Flocks
May 15	774	136	120	3.16	0.88	10	5
16	760	125	43	1.05	0.34	10	0
17	775	140	44	1.22	0.31	9	1
18	763	122	118	3.11	0.97	8	4
19	781	126	135	2.29	1.07	11	3
20	768	110	122	4.88	1.11	9	1
Total	4621	759	582	2.41	0.77	15	14
Average	770	127	97	2.62	0.78	10	2

TABLE 3. Diurnal Abundance of Species Groups Outside Grid, May 1965

DATE	Total Birds	Shear- water Petrels	Terns	Boobies	Tropic- birds	Storm Petrels	Fri- gates	Total in Flock
May 4	1243	472	715	54	0	1	1	1074
5	256	125	118	0	0	5	0	123
6	54	24	14	0	2	8	0	15
7	88	27	38	0	2	7	0	44
8	300	237	32	7	3	20	0	93
9	475	201	260	5	2	3	0	371
10	134	95	31	3	2	3	0	55
11	654	282	338	25	1	2	0	496
12	179	78	84	5	4	0	0	92
13	145	53	78	4	6	2	0	86
14	42	10	28	1	2	1	0	23
21	506	70	426	1	3	0	7	421
22	109	62	40	2	5	0	0	34
23	383	116	242	2	1	1	3	258
24	9899	6628	2846	268	4	0	3	9685
Total, Oahu to Grid	3580	1604	1776	104	24	52	1	2472
Average	325	146	161	9	2	5	-	225
Total Grid to Oahu	10897	6876	3554	273	13	1	13	10428
Average	2724	1719	889	68	3	-	3	2607
Total outside Grid	14477	8481	5330	377	37	53	14	12900
Average	965	565	355	25	2	5	1	860
Total Out- side Grid 5-23 only	3355	1381	1769	55	33	52	10	2141
Average	257	106	136	4	2	5	1	165

TABLE 4. Diurnal Abundance of Species Groups Inside Grid, May 1965

Date	Total Birds	Shearwater Petrels	Terns	Boobies	Tropicbirds	Frigates	Storm Petrels	Total in Flocks
May 15	120	38	79	0	3	0	0	84
16	43	35	4	0	2	0	2	0
17	44	39	1	0	1	0	1	5
18	118	33	81	0	1	2	0	77
19	135	48	77	1	7	0	2	70
20	122	20	99	0	2	1	0	95
Total	582	213	341	1	16	3	5	331
Average	97	36	57	-	3	1	1	55

TABLE 5. Daily Percent of Total Birds in Each Species Group, Outside Grid, May 1965

Date	Shearwater Petrels	Terns	Boobies	Tropicbirds	Frigates	Storm Pet.	Birds in Flocks
May 4	38	58	4	0	<<1	<<1	86
5	49	46	0	0	0	2	48
6	44	26	0	4	0	15	28
7	31	43	0	2	0	8	50
8	79	11	2	1	0	7	31
9	42	55	1	<1	0	<1	78
10	71	23	2	1	0	2	41
11	43	52	4	<1	0	<1	76
12	44	47	3	2	0	0	51
13	37	54	3	4	0	1	59
14	24	67	2	5	0	2	55
21	14	84	<<1	1	1	0	83
22	57	37	2	5	0	0	31
23	30	63	1	<<1	1	<<1	75
24	67	29	3	<<1	<<1	0	98
c/o Total Oahu to Grid	45	50	3	1	<<1	1	66
Average	46	44	2	2	-	3	55
c/o Total Grid to Oahu	63	33	3	<<1	<<1	<<1	96
Average	42	53	1	1	1	<<1	72
c/o Total Outside Grid	58	37	3	<<1	<<1	<<1	89
Average	44	46	2	2	<1	2	59
c/o Total out- side Grid May 5-23 only	41	53	2	1	<1	2	64
Average	43	46	2	2	<1	3	54

TABLE 6. Daily Percent of Total Birds in Each Species Group Within The Gird,
May 1965

Date	Shearwater Petrels	Terns	Boobies	Tropicbirds	Frigates	Storm Pet.	Birds in Flocks
May 15	32	66	0	3	0	0	70
16	81	9	0	5	0	5	0
17	89	2	0	2	0	2	11
18	28	69	0	1	2	0	65
19	36	57	1	5	0	1	52
20	16	81	0	2	1	0	78
% of Total	37	59	1	3	1	1	57

TABLE 7. Total Birds in Grid Quadrants, May 1965

Date	East		South		West		North	
	miles	birds	miles	birds	miles	birds	miles	birds
May 15	81	66	55	54				
16	61	18	64	25				
17	64	10	76	34				
18					57	32	65	86
19					64	69	58	66
20					62	10	48	112
TOTAL	226	94	195	133	183	111	171	264

TABLE 8. Diurnal Density of Species Groups Within the Grid

Group	Total Number	Birds/m ²	Estimated Population
Shearwater/Petrel	213	0.14	7000
Tern	341	0.15	7500
Booby	1	0.001	35
Tropicbird	16	0.01	500
Frigate	3	0.001	50
Storm Petrel	5	0.007	350
Total birds	582	0.31	15,500

TABLE 9. Location of Banded and/or Streamered Birds at Sea, May 1965

Species	Date	Band	Location
Blue-faced Booby	May 8	587-81598	10°51'N - 149°15'W
" " "	9	957-69155	8°01'N - 152°22'W
" " "	10	587-81418	9°35'N - 153°05'W
" " "	11	757-65383	8°36'N - 155°59'W
" " "	"	757-69318	8°12'N - 156°46'W
" " "	"	757-68816	8° 3'N - 157°07'W
" " "	12	587-81432	8°12'N - 160°59'W
Sooty Tern	15	Streamer	13°32'N - 169°45'W
" "	20	"	16°18'N - 172°57'W
" "	"	753-93875	" "
" "	21	753-11592	18°43'N - 170°31'W
" "	"	753-13558	" "
" "	"	Streamer	18°50'N - 170°54'W
" "	"	823-24899	18°58'N - 170°16'W

TABLE 10. Daily Occurrence of Species At Sea, May 1965

DATE	Laysan Albatross	Black-footed Albatross	Wedge-tailed Shearwater	Christmas Island Shearwater	Audubons ? Shearwater	Newell's Shearwater	Sooty Shearwater	Slender-billed Shearwater	Pale-footed Shearwater	New Zealand Shearwater	Juan Fernandez Petrel	White-necked Petrel	Kermadec Petrel	Phoenix Island Petrel	Dark-rumped Petrel	Mottled Petrel	Bonin Island Petrel	Cook's Petrel	Bulwer's Petrel	Leach's Storm Petrel
May 4			417	1		1	8												16	1
5	1		78			7	7				1				1				25	5
6			9		1	1	4											1	2	8
7			11			2	4						2					1		7
8			72		2	5	3				127							1	3	17
9			78		2	8	2				85			2				15	5	2
10			22			7	5				31								4	3
11			164	7		5	47				25	1						9	5	2
12			34			2	13	1			4							2	12	
13			29		1	6					5	1						1	3	2
14			5																	1
15			6			1	5				17		1?					1		4
16			5				3				5					1		1	12	2
17			3			1	9				2		2					1	11	1
18			4				5				1							4	3	
19			1				12				1					1		8		2
20			1				4				4					1		2	2	
21			6				3		1	2	13	1					1	1		
22		4	30														1	3	1	
23		7	75	1			3			1	1								8	1
24	2	4	6454	1		87				3	1								68	1
Total Oahu to Grid	1	0	919	8	6	44	96	1	0	0	278	2	2	2	1	0	0	30	75	48
Total in Grid	0	0	20	0	0	2	38	0	0	0	30	0	2+1?	0	0	3	0	17	32	5
Total Grid to Oahu	2	15	6565	2	0	88	6	0	1	6	15	1	0	0	0	0	2	4	77	2

TABLE 10 con't Daily Occurrence of Species At Sea, May 1965

[illegible]

TABLE 11

Birds Collected At Sea, May 1965

Species	Number
Sooty Tern	64
Blue-faced Booby	29
Wedge-tailed Shearwater	27
Juan Fernandez Petrel	8
Bulwer's Petrel	5
Red-tailed Tropicbird	5
White-tailed Tropicbird	3
Black-footed Albatross	2
Fairy Tern	2
Gray-backed Tern	2
Long-tailed Jaeger	2
Common Noddy	1
Leach's Storm Petrel	1
White-necked Petrel	1
Christmas Island Shearwater	1
Pale-footed Shearwater	1
New Zealand Shearwater	1
Newell's Shearwater	1
Blue-gray Noddy	1
Total	157

Leache's Petrel: (10)

Ten birds were seen all south of 15°N.

White-tailed Tropicbird: (5)

Five of this species were seen, all north of 10°N.

Red-tailed Tropicbird: (4)

Four birds of this species were observed, all south of 10°N.

Blue-faced Booby: (2)

Two immature birds were seen just north of 5°N while still more than 300 miles NE of Hawland Island.

Red-footed Booby: (2)

The only two seen were the first day off Oahu.

Brown Booby: (1)

One bird was seen north of 5°N. and was observed to have a band on the right leg.

Frigatebird sp.: (13)

One Great Frigatebird was seen the first day off Oahu and twelve other unidentified Frigatebirds were seen about 150 miles NE of Hawland.

Sooty Tern: (103)

Of the birds identified as this species three-quarters were seen south of 7°N.

Fairy Tern: (1)

Only one bird of this species was seen on 4 May.

Common Noddy: (32)

All of these birds were seen the first day out.

Wandering Tattler: (1)

One bird was seen on 6 May the day before we sighted Hawland Island.

Jaeger sp.: (1)

One bird that was probably of this group was seen on 6 May. It was dark with a short neck and long tail. It appeared to have a hooked bill and was lighter about the neck and rump.

Observation time each day averaged about five hours. This time was usually split up between the early morning hours and the late afternoon.

Itinerary

30 April 1965 1200 hrs. LV. Pearl Harbor aboard USS George Eastman
7 May 0748 hrs. sighted Hawland Island
11500 hrs. sighted Baker Island
8 May 1100 hrs. Landed on Baker Island
18 May 1100 hrs. Left Baker Island and went aboard USS Arikara
and commenced SIC #8 Cruise.

Respectfully submitted,

Robert S. Standen

Robert S. Standen
Technical Assistant
8 July 1965

Discussion of the Smithsonian Grid Avifauna for May 1965

Fourteen species were identified. This is identical to the total for 1964. Newell's Shearwaters and Kermadec Petrels were found this year, but not last, while Pomarine Jaegers and Grey-backed Terns were found only last year.

A marked decrease in total number of birds over 1964 (from 53,000 to 15,500) may have been due to several days of rough weather with a considerable amount of rain. Although this type of weather probably has little influence on the numbers of birds in the area, it has a considerable effect on observations. It is expected, therefore, that the actual numbers of birds present during May is more accurately represented by the 1964 figures. This reduction in numbers was mainly the influence of extremely low numbers of Sooty Terns and Wedge-tailed Shearwaters observed.

The composition of the avifauna from the standpoint of species groups was roughly the same as in 1964 with the Shearwater-petrel Group being slightly higher and the Tern Group being correspondingly lower this year. Terns, however, still accounted for over 50 percent of the total avifauna.

The distribution of birds within the grid was somewhat different. 1964 concentrations were in the eastern quadrant while in 1965 they were most numerous in the northern quadrant. This is still consistent with the greater density in the Northeastern half of the area.

Seven Sooty Terns (four of which were collected) were observed with orange streamers indicating Johnston atoll birds. The farthest from this atoll was one observed 180 miles to the south.

As was expected there was an almost complete decrease in observations over April of 1965. The only species to gain in numbers were the Gadfly Petrels and Fairy Terns, besides the already mentioned Newell's Shearwater and Dermadec Petrel. These increases, however, were expected.

Species List for the Smithsonian Grid

1. Wedge-tailed Shearwater
2. Newell's Shearwater
3. Sooty Shearwater
4. Juan Fernandez Petrel
5. Kermadec Petrel
6. Mottled Petrel
7. Cook's Petrel
8. Bulwer's Petrel
9. Leach's Storm Petrel
10. Red-tailed Tropicbird
11. White-tailed Tropicbird
12. Great Frigatebird
13. Sooty Tern
- Fairy Fairy Tern

Diurnal Occurrence of Birds in Different Grid Quadrants

N - 1.544 birds per linear mile

S - 0.682 " " " "

E - 0.416 " " " "

W - 0.607 " " " "

Density of Species Groups within the Grid

Group	Total Number	Birds Per Square Mile	Estimated Population
Shearwater-Petrel	213	0.14	7,000
Tern	341	0.151	7,500
Booby	1	-0.01	35
Tropic-bird	16	0.01	500
Frigatebird	3	-0.01	50
Storm Petrel	5	0.01	350
Total birds	582	0.31	15,500

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Rev. 4-9-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY OBSERVATIONS SUMMARY

DATE: 4 May 1965 Total Minutes: 265 (1430-1855) Total Miles 40

I. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>124</u>	<u>1243</u>	<u>10.02</u>	<u>31.08</u>

II. Abundance of the Shearwater-Petrel-Albatross Group: *Procellariid - includes storm petrels*

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	WT	Pt	B	T	WT	Pt	B	T	WT	P	B	T	WT	P	B
<u>80</u>	<u>55</u>	<u>1</u>	<u>14</u>	<u>473</u>	<u>417</u>	<u>2</u>	<u>16</u>	<u>5.09</u>	<u>7.58</u>	<u>2</u>	<u>1.14</u>	<u>11.83</u>	<u>10.43</u>	<u>0.05</u>	<u>0.40</u>

III. Abundance of Tropicbirds:

No. Sightings			No. Birds			Birds/Sighting			Birds/Mile		
T	RT	WT	T	RT	WT	T	RT	WT	T	RT	WT
<u>0</u>											

IV. Abundance of Terns:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>32</u>	<u>467</u>	<u>14.59</u>	<u>11.68</u>

V. Abundance of Shorebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>0</u>			

VI. Abundance of Boobys:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	BF	RF	B	T	BF	RF	B	T	BF	RF	B	T	BF	RF	B
<u>12</u>	<u>0</u>	<u>11</u>	<u>2</u>	<u>54</u>	<u>0</u>	<u>51</u>	<u>2</u>	<u>4.50</u>	<u>0</u>	<u>4.64</u>	<u>1</u>	<u>1.35</u>	<u>0</u>	<u>1.28</u>	<u>0.05</u>

VII. Abundance of Frigatebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>1</u>	<u>1</u>	<u>1</u>	<u>0.03</u>

VIII. Abundance of Flocks:

Total No. Flocks	Total No. Birds	Total No. F/Mi.	No. Feeding Flocks	No. Feeding Birds	No. Feeding F/MI.
<u>12</u>	<u>1074</u>	<u>0.30</u>	<u>3</u>	<u>723</u>	<u>0.08</u>

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY OBSERVATIONS SUMMARY

DATE: 5 May 1965 Total Minutes: 768 (0554-1842) Total Miles 123

I. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>101</u>	<u>256</u>	<u>2.24</u>	<u>2.08</u>

II. Abundance of the Shearwater-Petrel-Albatross Group:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	WT	P	B	T	WT	P	B	T	WT	P	B	T	WT	P	B
<u>80</u>	<u>35</u>	<u>6</u>	<u>24</u>	<u>131</u>	<u>78</u>	<u>7</u>	<u>25</u>	<u>1.64</u>	<u>2.23</u>	<u>1.17</u>	<u>1.09</u>	<u>1.07</u>	<u>0.63</u>	<u>0.06</u>	<u>0.20</u>

III. Abundance of Tropicbirds:

No. Sightings			No. Birds			Birds/Sighting			Birds/Mile		
T	RT	WT	T	RT	WT	T	RT	WT	T	RT	WT
<u>0</u>											

IV. Abundance of Terns:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>17</u>	<u>118</u>	<u>6.94</u>	<u>0.96</u>

V. Abundance of Shorebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>0</u>			

VI. Abundance of Boobys:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	BF	RF	B	T	BF	RF	B	T	BF	RF	B	T	BF	RF	B
<u>0</u>															

VII. Abundance of Frigatebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>0</u>			

VIII. Abundance of Flocks:

Total No. Flocks	Total No. Birds	Total No. F/Mi.	No. Feeding Flocks	No. Feeding Birds	No. Feeding F/MI.
<u>4</u>	<u>123</u>	<u>0.03</u>	<u>1</u>	<u>101</u>	<u>0.01</u>

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY OBSERVATIONS SUMMARY

DATE: 6 May 1965 Total Minutes: 760 (0550-1830) Total Miles 114

I. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>35</u>	<u>54</u>	<u>1.54</u>	<u>0.57</u>

II. Abundance of the Shearwater-Petrel-Albatross Group:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	WT	P	B	T	WT	P	B	T	WT	P	B	T	WT	P	B
<u>19</u>	<u>7</u>	<u>1</u>	<u>2</u>	<u>24</u>	<u>9</u>	<u>1</u>	<u>2</u>	<u>1.26</u>	<u>1.29</u>	<u>1</u>	<u>1</u>	<u>0.21</u>	<u>0.08</u>	<u><0.01</u>	<u>0.02</u>

III. Abundance of Tropicbirds:

No. Sightings			No. Birds			Birds/Sighting			Birds/Mile		
T	RT	WT	T	RT	WT	T	RT	WT	T	RT	WT
		<u>1</u>			<u>2</u>			<u>2</u>			<u>0.02</u>

IV. Abundance of Terns:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>2</u>	<u>14</u>	<u>7</u>	<u>0.12</u>

V. Abundance of Shorebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>0</u>			

VI. Abundance of Boobys:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	BF	RF	B	T	BF	RF	B	T	BF	RF	B	T	BF	RF	B
<u>0</u>															

VII. Abundance of Frigatebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>0</u>			

VIII. Abundance of Flocks:

Total No. Flocks	Total No. Birds	Total No. F/Mi.	No. Feeding Flocks	No. Feeding Birds	No. Feeding F/Mi.
<u>1</u>	<u>15</u>	<u>20.01</u>	<u>0</u>		

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY OBSERVATIONS SUMMARY

DATE: 7 May 1965 Total Minutes: 754 (0543-1817) Total Miles 117

I. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>36</u>	<u>88</u>	<u>2.44</u>	<u>0.25</u>

II. Abundance of the Shearwater-Petrel-Albatross Group:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	WT	P	B	T	WT	P	B	T	WT	P	B	T	WT	P	B
<u>18</u>	<u>5</u>	<u>5</u>	<u>0</u>	<u>27</u>	<u>11</u>	<u>6</u>	<u>0</u>	<u>1.56</u>	<u>2.2</u>	<u>1.2</u>	<u>0</u>	<u>0.23</u>	<u>0.09</u>	<u>0.05</u>	<u>0</u>

III. Abundance of Tropicbirds:

No. Sightings			No. Birds			Birds/Sighting			Birds/Mile		
T	RT	WT	T	RT	WT	T	RT	WT	T	RT	WT
<u>2</u>	<u>1</u>	<u>1</u>	<u>2</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>0.02</u>	<u>0.01</u>	<u>0.01</u>

IV. Abundance of Terns:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>3</u>	<u>38</u>	<u>12.67</u>	<u>0.32</u>

V. Abundance of Shorebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>0</u>			

VI. Abundance of Boobys:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	BF	RF	B	T	BF	RF	B	T	BF	RF	B	T	BF	RF	B
<u>0</u>															

VII. Abundance of Frigatebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>0</u>			

VIII. Abundance of Flocks:

Total No. Flocks	Total No. Birds	Total No. F/Mi.	No. Feeding Flocks	No. Feeding Birds	No. Feeding F/MI.
<u>1</u>		<u><0.01</u>	<u>1</u>	<u>44</u>	<u><0.01</u>

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY OBSERVATIONS SUMMARY

DATE: 8 May 1965

Total Minutes: ⁷⁵⁷~~757~~ (0538-1815) Total Miles 101

I. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>151</u>	<u>300</u>	<u>1.99 MM</u>	<u>2.97</u>

II. Abundance of the Shearwater-Petrel-Albatross Group:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	WT	P	B	T	WT	P	B	T	WT	P	B	T	WT	P	B
<u>136</u>	<u>33</u>	<u>63</u>	<u>3</u>	<u>237</u>	<u>72</u>	<u>131</u>	<u>3</u>	<u>1.74</u>	<u>2.18</u>	<u>2.08</u>	<u>1</u>	<u>2.35</u>	<u>0.72</u>	<u>1.30</u>	<u>0.03</u>

III. Abundance of Tropicbirds:

No. Sightings			No. Birds			Birds/Sighting			Birds/Mile		
T	RT	WT	T	RT	WT	T	RT	WT	T	RT	WT
<u>3</u>	<u>2</u>	<u>1</u>	<u>3</u>	<u>2</u>	<u>1</u>	<u>1</u>	<u>2</u>	<u>1</u>	<u>0.03</u>	<u>0.02</u>	<u>0.01</u>

IV. Abundance of Terns:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>2</u>	<u>32</u>	<u>16</u>	<u>0.32</u>

V. Abundance of Shorebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>0</u>			

VI. Abundance of Boobys:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	BF	RF	B	T	BF	RF	B	T	BF	RF	B	T	BF	RF	B
<u>5</u>				<u>7</u>				<u>1.40</u>				<u>0.07</u>			

VII. Abundance of Frigatebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>0</u>			

VIII. Abundance of Flocks:

Total No. Flocks	Total No. Birds	Total No. F/Mi.	No. Feeding Flocks	No. Feeding Birds	No. Feeding F/MI.
<u>3</u>	<u>93</u>	<u>0.03</u>	<u>1</u>	<u>78</u>	<u>0.01</u>

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY OBSERVATIONS SUMMARY

DATE: 9 May 1965 Total Minutes: 753 (0548-1821) Total Miles 98

I. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>84</u>	<u>475</u>	<u>5.65</u>	<u>4.85</u>

II. Abundance of the Shearwater-Petrel-Albatross Group:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	WT	P	B	T	WT	P	B	T	WT	P	B	T	WT	P	B
<u>72</u>	<u>28</u>	<u>34</u>	<u>5</u>	<u>261</u>	<u>78</u>	<u>103</u>	<u>5</u>	<u>2.79</u>	<u>2.79</u>	<u>3.03</u>	<u>1</u>	<u>2.05</u>	<u>0.80</u>	<u>1.05</u>	<u>0.05</u>

III. Abundance of Tropicbirds:

No. Sightings			No. Birds			Birds/Sighting			Birds/Mile		
T	RT	WT	T	RT	WT	T	RT	WT	T	RT	WT
<u>2</u>			<u>2</u>			<u>1</u>			<u>0.02</u>		

IV. Abundance of Terns:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>4</u>	<u>260</u>	<u>65</u>	<u>2.65</u>

V. Abundance of Shorebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>0</u>			

VI. Abundance of Boobys:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	BF	RF	B	T	BF	RF	B	T	BF	RF	B	T	BF	RF	B
<u>5</u>				<u>5</u>				<u>1</u>				<u>0.05</u>			

VII. Abundance of Frigatebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>0</u>			

VIII. Abundance of Flocks:

Total No. Flocks	Total No. Birds	Total No. F/Mi.	No. Feeding Flocks	No. Feeding Birds	No. Feeding F/MI.
<u>5</u>	<u>371</u>	<u>0.05</u>	<u>1</u>	<u>91</u>	<u>0.01</u>

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DIVISION OF BIRDS
AT SEA DAILY OBSERVATIONS SUMMARY

DATE: 10 May 1965 Total Minutes: 742 (0546-1828) Total Miles 137

I. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
72	134	1.86	0.98

II. Abundance of the Shearwater-Petrel-Albatross Group:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	WT	P	B	T	WT	P	B	T	WT	P	B	T	WT	P	B
62	5	27	4	95	22	38	4	1.53	4.40	1.41	1	0.69	0.17	0.28	0.03

III. Abundance of Tropicbirds:

No. Sightings			No. Birds			Birds/Sighting			Birds/Mile		
T	RT	WT	T	RT	WT	T	RT	WT	T	RT	WT
2			2			1			0.01		

IV. Abundance of Terns:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
4	31	7.75	0.23

V. Abundance of Shorebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
0			

VI. Abundance of Boobys:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	BF	RF	B	T	BF	RF	B	T	BF	RF	B	T	BF	RF	B
3				3				1				0.02			

VII. Abundance of Frigatebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
0			

VIII. Abundance of Flocks:

Total No. Flocks	Total No. Birds	Total No. F/Mi.	No. Feeding Flocks	No. Feeding Birds	No. Feeding F/MI.
1	55	0.01			

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DIVISION OF BIRDS
AT SEA DAILY OBSERVATIONS SUMMARY

DATE: 11 May 1965 Total Minutes: 757 (0604-1841) Total Miles 103

I. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>137</u>	<u>654</u>	<u>4.77</u>	<u>6.35</u>

II. Abundance of the Shearwater-Petrel-Albatross Group:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	WT	P	B	T	WT	P	B	T	WT	P	B	T	WT	P	B
<u>108</u>	<u>31</u>	<u>25</u>	<u>5</u>	<u>282</u>	<u>164</u>	<u>36</u>	<u>5</u>	<u>2.61</u>	<u>5.29</u>	<u>1.44</u>	<u>1</u>	<u>2.74</u>	<u>1.59</u>	<u>0.36</u>	<u>0.05</u>

III. Abundance of Tropicbirds:

No. Sightings			No. Birds			Birds/Sighting			Birds/Mile		
T	RT	WT	T	RT	WT	T	RT	WT	T	RT	WT
<u>1</u>			<u>1</u>			<u>1</u>			<u>0.01</u>		

IV. Abundance of Terns:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>14</u>	<u>338</u>	<u>24.14</u> 24.14	<u>3.28</u>

V. Abundance of Shorebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>0</u>			

VI. Abundance of Boobys:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	BF	RF	B	T	BF	RF	B	T	BF	RF	B	T	BF	RF	B
<u>14</u>				<u>25</u>				<u>1.79</u>				<u>0.24</u>			

VII. Abundance of Frigatebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>0</u>			

VIII. Abundance of Flocks:

Total No. Flocks	Total No. Birds	Total No. F/Mi.	No. Feeding Flocks	No. Feeding Birds	No. Feeding F/MI.
<u>9</u>	<u>496</u>	<u>0.09</u>	<u>0</u>		

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AT SEA DAILY OBSERVATIONS SUMMARY

DATE: 12 May 1965 Total Minutes: (0518-1758) 760 Total Miles 118

I. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>81</u>	<u>179</u>	<u>2.21</u>	<u>1.52</u>

II. Abundance of the Shearwater-Petrel-Albatross Group:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	WT	P	B	T	WT	P	B	T	WT	P	B	T	WT	P	B
<u>58</u>	<u>16</u>	<u>11</u>	<u>12</u>	<u>78</u>	<u>34</u>	<u>11</u>	<u>12</u>	<u>1.34</u>	<u>2.13</u>	<u>1</u>	<u>1</u>	<u>0.66</u>	<u>0.29</u>	<u>0.09</u>	<u>0.10</u>

III. Abundance of Tropicbirds:

No. Sightings			No. Birds			Birds/Sighting			Birds/Mile		
T	RT	WT	T	RT	WT	T	RT	WT	T	RT	WT
<u>4</u>			<u>4</u>			<u>1</u>			<u>0.03</u>		

IV. Abundance of Terns:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>11</u>	<u>84</u>	<u>7.64</u>	<u>0.71</u>

V. Abundance of Shorebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>0</u>			

VI. Abundance of Boobys:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	BF	RF	B	T	BF	RF	B	T	BF	RF	B	T	BF	RF	B
<u>5</u>				<u>5</u>				<u>1</u>				<u>0.04</u>			

VII. Abundance of Frigatebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>0</u>			

VIII. Abundance of Flocks:

Total No. Flocks	Total No. Birds	Total No. F/Mi.	No. Feeding Flocks	No. Feeding Birds	No. Feeding F/MI.
<u>6</u>	<u>92</u>	<u>0.05</u>	<u>0</u>		

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AT SEA DAILY OBSERVATIONS SUMMARY

DATE: 13 May 1965 Total Minutes: (0535 - 1814) 759 Total Miles 141

I. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>92</u>	<u>145</u>	<u>1.58</u>	<u>1.03</u>

II. Abundance of the Shearwater-Petrel-Albatross Group:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	WT	P	B	T	WT	P	B	T	WT	P	B	T	WT	P	B
<u>28</u>	<u>10</u>	<u>7</u>	<u>3</u>	<u>53</u>	<u>29</u>	<u>7</u>	<u>3</u>	<u>2.90</u>	<u>1</u>	<u>1</u>		<u>0.38</u>	<u>0.21</u>	<u>0.05</u>	<u>0.02</u>

III. Abundance of Tropicbirds:

No. Sightings			No. Birds			Birds/Sighting			Birds/Mile		
T	RT	WT	T	RT	WT	T	RT	WT	T	RT	WT
<u>5</u>	<u>3</u>	<u>2</u>	<u>6</u>	<u>4</u>	<u>2</u>	<u>1.20</u>	<u>1.33</u>	<u>1</u>	<u>0.04</u>	<u>0.03</u>	<u>0.01</u>

IV. Abundance of Terns:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>7</u>	<u>78</u>	<u>11.14</u>	<u>0.55</u>

V. Abundance of Shorebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>0</u>			

VI. Abundance of Boobys:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	BF	RF	B	T	BF	RF	B	T	BF	RF	B	T	BF	RF	B
<u>4</u>	<u>3</u>	<u>1</u>	<u>-</u>	<u>4</u>	<u>3</u>	<u>1</u>	<u>-</u>	<u>1.1</u>	<u>1</u>	<u>1</u>	<u>-</u>	<u>0.03</u>	<u>0.02</u>	<u>0.01</u>	<u>-</u>

VII. Abundance of Frigatebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>0</u>			

VIII. Abundance of Flocks:

Total No. Flocks	Total No. Birds	Total No. F/Mi.	No. Feeding Flocks	No. Feeding Birds	No. Feeding F/Mi.
<u>1</u>	<u>86</u>	<u>0.01</u>	<u>0</u>		

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AT SEA DAILY OBSERVATIONS SUMMARY

DATE: 14 May 1965 Total Minutes: 765 (0544-1829) Total Miles 144

I. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>17</u>	<u>42</u>	<u>2.47</u>	<u>0.29</u>

II. Abundance of the Shearwater-Petrel-Albatross Group:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	WT	P	B	T	WT	P	B	T	WT	P	B	T	WT	P	B
<u>7</u>	<u>3</u>	<u>2</u>	<u>-</u>	<u>10</u>	<u>5</u>	<u>3</u>	<u>-</u>	<u>1.43</u>	<u>1.67</u>	<u>1.5</u>	<u>-</u>	<u>0.07</u>	<u>0.04</u>	<u>0.02</u>	<u>-</u>

III. Abundance of Tropicbirds:

No. Sightings			No. Birds			Birds/Sighting			Birds/Mile		
T	RT	WT	T	RT	WT	T	RT	WT	T	RT	WT
<u>-</u>	<u>2</u>	<u>-</u>	<u>-</u>	<u>2</u>	<u>-</u>	<u>1</u>	<u>-</u>	<u>-</u>	<u>0.01</u>	<u>-</u>	<u>-</u>

IV. Abundance of Terns:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>7</u>	<u>28</u>	<u>4.00</u>	<u>0.19</u>

V. Abundance of Shorebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>0</u>	<u>-</u>	<u>-</u>	<u>-</u>

VI. Abundance of Boobys:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	BF	RF	B	T	BF	RF	B	T	BF	RF	B	T	BF	RF	B
<u>-</u>	<u>-</u>	<u>1</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>1</u>	<u>-</u>	<u>1</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>0.01</u>	<u>-</u>	<u>-</u>	<u>-</u>

VII. Abundance of Frigatebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>0</u>	<u>-</u>	<u>-</u>	<u>-</u>

VIII. Abundance of Flocks:

Total No. Flocks	Total No. Birds	Total No. F/Mi.	No. Feeding Flocks	No. Feeding Birds	No. Feeding F/MI.
<u>2</u>	<u>23</u>	<u>0.01</u>	<u>-</u>	<u>-</u>	<u>-</u>

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY OBSERVATIONS SUMMARY

Grand

DATE: 15 May 1965 Total Minutes: 0547-1841 (774) Total Miles 136

I. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>38</u>	<u>120</u>	<u>3.16</u>	<u>0.88</u>

II. Abundance of the Shearwater-Petrel-Albatross Group:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	WT	P	B	T	WT	P	B	T	WT	P	B	T	WT	P	B
<u>22</u>	<u>3</u>	<u>8</u>	<u>4</u>	<u>38</u>	<u>6</u>	<u>20</u>	<u>4</u>	<u>1.73</u>	<u>2</u>	<u>2.50</u>	<u>1</u>	<u>0.28</u>	<u>0.04</u>	<u>0.15</u>	<u>0.03</u>

III. Abundance of Tropicbirds:

No. Sightings			No. Birds			Birds/Sighting			Birds/Mile		
T	RT	WT	T	RT	WT	T	RT	WT	T	RT	WT
<u>-</u>	<u>3</u>	<u>-</u>	<u>-</u>	<u>3</u>	<u>-</u>	<u>-</u>	<u>1</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>0.02</u>

IV. Abundance of Terns:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>15</u>	<u>79</u>	<u>5.27</u>	<u>0.58</u>

V. Abundance of Shorebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>0</u>			

VI. Abundance of Boobys:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	BF	RF	B	T	BF	RF	B	T	BF	RF	B	T	BF	RF	B
<u>0</u>															

VII. Abundance of Frigatebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>0</u>			

VIII. Abundance of Flocks:

Total No. Flocks	Total No. Birds	Total No. F/Mi.	No. Feeding Flocks	No. Feeding Birds	No. Feeding F/MI.
<u>5</u>	<u>84</u>	<u>0.04</u>	<u>1</u>	<u>26</u>	

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY OBSERVATIONS SUMMARY

DATE: 16 May 1965 Total Minutes: 760 (0600 - 1840) Total Miles 125

I. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>41</u>	<u>43</u>	<u>1.05</u>	<u>0.34</u>

II. Abundance of the Shearwater-Petrel-Albatross Group:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	WT	P	B	T	WT	P	B	T	WT	P	B	T	WT	P	B
<u>35</u>	<u>5</u>	<u>9</u>	<u>10</u>	<u>35</u>	<u>5</u>	<u>9</u>	<u>12</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1.20</u>	<u>0.28</u>	<u>0.04</u>	<u>0.07</u>	<u>0.10</u>

III. Abundance of Tropicbirds:

No. Sightings			No. Birds			Birds/Sighting			Birds/Mile		
T	RT	WT	T	RT	WT	T	RT	WT	T	RT	WT
<u>2</u>	<u>1</u>	<u>1</u>	<u>2</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>0.02</u>	<u>0.01</u>	<u>0.01</u>

IV. Abundance of Terns:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>4</u>	<u>4</u>	<u>1</u>	<u>0.03</u>

V. Abundance of Shorebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>0</u>			

VI. Abundance of Boobys:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	BF	RF	B	T	BF	RF	B	T	BF	RF	B	T	BF	RF	B
<u>0</u>															

VII. Abundance of Frigatebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>0</u>			

VIII. Abundance of Flocks:

Total No. Flocks	Total No. Birds	Total No. F/Mi.	No. Feeding Flocks	No. Feeding Birds	No. Feeding F/Mi.
<u>0</u>					

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY OBSERVATIONS SUMMARY

DATE: 17 May 1965 Total Minutes: 775 (0553-1848) Total Miles 140

I. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>36</u>	<u>44</u>	<u>1.22</u>	<u>0.31</u>

II. Abundance of the Shearwater-Petrel-Albatross Group:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	WT	P	B	T	WT	P	B	T	WT	P	B	T	WT	P	B
<u>32</u>	<u>1</u>	<u>6</u>	<u>11</u>	<u>39</u>	<u>3</u>	<u>6</u>	<u>11</u>	<u>1.22</u>	<u>3</u>	<u>1</u>	<u>1</u>	<u>0.28</u>	<u>0.02</u>	<u>0.04</u>	<u>0.08</u>

III. Abundance of Tropicbirds:

No. Sightings			No. Birds			Birds/Sighting			Birds/Mile		
T	RT	WT	T	RT	WT	T	RT	WT	T	RT	WT
<u>1</u>	<u>—</u>	<u>—</u>	<u>1</u>	<u>—</u>	<u>—</u>	<u>1</u>	<u>—</u>	<u>—</u>	<u>0.01</u>	<u>—</u>	<u>—</u>

IV. Abundance of Terns:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>1</u>	<u>1</u>	<u>1</u>	<u>0.01</u>

V. Abundance of Shorebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>0</u>	<u>—</u>	<u>—</u>	<u>—</u>

VI. Abundance of Boobys:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	BF	RF	B	T	BF	RF	B	T	BF	RF	B	T	BF	RF	B
<u>0</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>

VII. Abundance of Frigatebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>0</u>	<u>—</u>	<u>—</u>	<u>—</u>

VIII. Abundance of Flocks:

Total No. Flocks	Total No. Birds	Total No. F/Mi.	No. Feeding Flocks	No. Feeding Birds	No. Feeding F/MI.
<u>1</u>	<u>5</u>	<u>0.01</u>	<u>—</u>	<u>—</u>	<u>—</u>

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY OBSERVATIONS SUMMARY

DATE: 18 May 1965 Total Minutes: 763 (0603-1846) Total Miles 122

I. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>38</u>	<u>118</u>	<u>3.11</u>	<u>0.97</u>

II. Abundance of the Shearwater-Petrel-Albatross Group:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	WT	P	B	T	WT	P	B	T	WT	P	B	T	WT	P	B
<u>28</u>	<u>4</u>	<u>1</u>	<u>3</u>	<u>33</u>	<u>4</u>	<u>16</u>	<u>3</u>	<u>1.18</u>	<u>1</u>	<u>1.45</u>	<u>1</u>	<u>0.27</u>	<u>0.03</u>	<u>0.13</u>	<u>0.02</u>

III. Abundance of Tropicbirds:

No. Sightings			No. Birds			Birds/Sighting			Birds/Mile		
T	RT	WT	T	RT	WT	T	RT	WT	T	RT	WT
<u>1</u>			<u>1</u>			<u>1</u>			<u>0.01</u>		

IV. Abundance of Terns:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>8</u>	<u>81</u>	<u>10.13</u>	<u>0.66</u>

V. Abundance of Shorebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>0</u>			

VI. Abundance of Boobys:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	BF	RF	B	T	BF	RF	B	T	BF	RF	B	T	BF	RF	B
<u>0</u>															

VII. Abundance of Frigatebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>1</u>	<u>2</u>	<u>2</u>	<u>0.02</u>

VIII. Abundance of Flocks:

Total No. Flocks	Total No. Birds	Total No. F/Mi.	No. Feeding Flocks	No. Feeding Birds	No. Feeding F/MI.
<u>4</u>	<u>77</u>	<u>0.03</u>			

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY OBSERVATIONS SUMMARY

DATE: 19 May 1965 Total Minutes: 781 (0552-1853) Total Miles 126

I. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>59</u>	<u>135</u>	<u>2.29</u>	<u>1.07</u>

II. Abundance of the Shearwater-Petrel-Albatross Group:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	WT	P	B	T	WT	P	B	T	WT	P	B	T	WT	P	B
<u>39</u>	<u>1</u>	<u>16</u>	<u>-</u>	<u>48</u>	<u>1</u>	<u>20</u>	<u>-</u>	<u>1.23</u>	<u>1</u>	<u>1.25</u>	<u>-</u>	<u>0.38</u>	<u>0.01</u>	<u>0.16</u>	<u>-</u>

III. Abundance of Tropicbirds:

No. Sightings			No. Birds			Birds/Sighting			Birds/Mile		
T	RT	WT	T	RT	WT	T	RT	WT	T	RT	WT
<u>5</u>	<u>3</u>	<u>4</u>	<u>7</u>	<u>3</u>	<u>4</u>	<u>1.40</u>	<u>1</u>	<u>1</u>	<u>0.06</u>	<u>0.02</u>	<u>0.03</u>

IV. Abundance of Terns:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>14</u>	<u>77</u>	<u>5.50</u>	<u>0.61</u>

V. Abundance of Shorebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>0</u>			

VI. Abundance of Boobys:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	BF	RF	B	T	BF	RF	B	T	BF	RF	B	T	BF	RF	B
<u>1</u>				<u>1</u>				<u>1</u>				<u>0.01</u>			

VII. Abundance of Frigatebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>0</u>			

VIII. Abundance of Flocks:

Total No. Flocks	Total No. Birds	Total No. F/Mi.	No. Feeding Flocks	No. Feeding Birds	No. Feeding F/MI.
<u>3</u>	<u>70</u>	<u>0.02</u>	<u>1</u>	<u>16</u>	<u>0.01</u>

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY OBSERVATIONS SUMMARY

DATE: 20 May 1965 Total Minutes: 768 (0606-1854) Total Miles 110

I. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>25</u>	<u>122</u>	<u>4.88</u>	<u>1.11</u>

II. Abundance of the Shearwater-Petrel-Albatross Group:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	WT	P	B	T	WT	P	B	T	WT	P	B	T	WT	P	B
<u>20</u>	<u>1</u>	<u>11</u>	<u>2</u>	<u>20</u>	<u>1</u>	<u>11</u>	<u>2</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>0.18</u>	<u>0.01</u>	<u>0.10</u>	<u>0.02</u>

III. Abundance of Tropicbirds:

No. Sightings			No. Birds			Birds/Sighting			Birds/Mile		
T	RT	WT	T	RT	WT	T	RT	WT	T	RT	WT
<u>2</u>			<u>2</u>			<u>1</u>			<u>0.02</u>		

IV. Abundance of Terns:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>2</u>	<u>99</u>	<u>49.50</u>	<u>0.90</u>

V. Abundance of Shorebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>0</u>			

VI. Abundance of Boobys:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	BF	RF	B	T	BF	RF	B	T	BF	RF	B	T	BF	RF	B
<u>0</u>															

VII. Abundance of Frigatebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>1</u>	<u>1</u>	<u>1</u>	<u>0.01</u>

VIII. Abundance of Flocks:

Total No. Flocks	Total No. Birds	Total No. F/Mi.	No. Feeding Flocks	No. Feeding Birds	No. Feeding F/MI.
<u>1</u>	<u>95</u>	<u>0.01</u>			

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY OBSERVATIONS SUMMARY

DATE: 21 May 1965 Total Minutes: 781 (0549-1850) Total Miles 90

I. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>69</u>	<u>586</u>	<u>7.33</u>	<u>5.62</u>

II. Abundance of the Shearwater-Petrel-Albatross Group:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	WT	P	B	T	WT	P	B	T	WT	P	B	T	WT	P	B
<u>58</u>	<u>4</u>	<u>42</u>	<u>0</u>	<u>70</u>	<u>6</u>	<u>51</u>	<u>-</u>	<u>1.21</u>	<u>1.50</u>	<u>1.21</u>	<u>-</u>	<u>0.78</u>	<u>0.07</u>	<u>0.57</u>	<u>-</u>

III. Abundance of Tropicbirds:

No. Sightings			No. Birds			Birds/Sighting			Birds/Mile		
T	RT	WT	T	RT	WT	T	RT	WT	T	RT	WT
<u>3</u>			<u>3</u>			<u>1</u>			<u>0.03</u>		

IV. Abundance of Terns:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>14</u>	<u>426</u>	<u>30.43</u>	<u>4.73</u>

V. Abundance of Shorebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>0</u>			

VI. Abundance of Boobys:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	BF	RF	B	T	BF	RF	B	T	BF	RF	B	T	BF	RF	B
<u>1</u>				<u>1</u>				<u>1</u>				<u>0.01</u>			

VII. Abundance of Frigatebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>3</u>	<u>7</u>	<u>2.33</u>	<u>0.08</u>

VIII. Abundance of Flocks:

Total No. Flocks	Total No. Birds	Total No. F/Mi.	No. Feeding Flocks	No. Feeding Birds	No. Feeding F/MI.
<u>4</u>	<u>421</u>	<u>3 0.04</u>	<u>3</u>	<u>300</u>	<u>0.03</u>

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY OBSERVATIONS SUMMARY

DATE: 22 May 1965 Total Minutes: 787 (0536-1843) Total Miles 117

I. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>56</u>	<u>109</u>	<u>1.95</u>	<u>0.93</u>

II. Abundance of the Shearwater-Petrel-Albatross Group:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	WT	P	B	T	WT	P	B	T	WT	P	B	T	WT	P	B
<u>35</u>	<u>10</u>	<u>16</u>	<u>1</u>	<u>62</u>	<u>30</u>	<u>22</u>	<u>1</u>	<u>1.77</u>	<u>3</u>	<u>1.38</u>	<u>1</u>	<u>0.53</u>	<u>0.26</u>	<u>0.19</u>	<u>0.01</u>

III. Abundance of Tropicbirds:

No. Sightings			No. Birds			Birds/Sighting			Birds/Mile		
T	RT	WT	T	RT	WT	T	RT	WT	T	RT	WT
<u>4</u>			<u>5</u>			<u>1.25</u>			<u>0.04</u>		

IV. Abundance of Terns:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>16</u>	<u>40</u>	<u>2.50</u>	<u>0.34</u>

V. Abundance of Shorebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>0</u>			

VI. Abundance of Boobys:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	BF	RF	B	T	BF	RF	B	T	BF	RF	B	T	BF	RF	B
<u>2</u>				<u>2</u>				<u>1</u>				<u>0.02</u>			

VII. Abundance of Frigatebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>0</u>			

VIII. Abundance of Flocks:

Total No. Flocks	Total No. Birds	Total No. F/Mi.	No. Feeding Flocks	No. Feeding Birds	No. Feeding F/MI.
<u>3</u>	<u>34</u>	<u>0.03</u>			

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY OBSERVATIONS SUMMARY

DATE: 23 May 1965 Total Minutes: 799 (0518-1837) Total Miles 78

I. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>70</u>	<u>383</u>	<u>5.47</u>	<u>4.91</u>

II. Abundance of the Shearwater-Petrel-Albatross Group:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	WT	P	B	T	WT	P	B	T	WT	P	B	T	WT	P	B
<u>42</u>	<u>27</u>	<u>3</u>	<u>8</u>	<u>116</u>	<u>75</u>	<u>3</u>	<u>8</u>	<u>2.76</u>	<u>2.78</u>	<u>1</u>	<u>1</u>	<u>1.48</u>	<u>0.96</u>	<u>0.04</u>	<u>0.10</u>

III. Abundance of Tropicbirds:

No. Sightings			No. Birds			Birds/Sighting			Birds/Mile		
T	RT	WT	T	RT	WT	T	RT	WT	T	RT	WT
<u>1</u>			<u>1</u>			<u>1</u>			<u>0.01</u>		

IV. Abundance of Terns:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>20</u>	<u>242</u>	<u>12.10</u>	<u>3.10</u>

V. Abundance of Shorebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>0</u>			

VI. Abundance of Boobys:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	BF	RF	B	T	BF	RF	B	T	BF	RF	B	T	BF	RF	B
<u>2</u>				<u>2</u>				<u>1</u>				<u>0.03</u>			

VII. Abundance of Frigatebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>2</u>	<u>3</u>	<u>1.50</u>	<u>0.04</u>

VIII. Abundance of Flocks:

Total No. Flocks	Total No. Birds	Total No. F/Mi.	No. Feeding Flocks	No. Feeding Birds	No. Feeding F/MI.
<u>4</u>	<u>288</u>	<u>0.05</u>			

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY OBSERVATIONS SUMMARY

DATE: 24 May 1965 Total Minutes: 770 (0605-1915)
769 (0605-1854) Total Miles 110

I. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
176	9899	56.24	90.00

II. Abundance of the Shearwater-Petrel-Albatross Group:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	WT	P	B	T	WT	P	B	T	WT	P	B	T	WT	P	B
117	43	3	45	6638	6454	3	68	56.60	150.09	1	1.51	60.25	58.67	0.02	0.62

III. Abundance of Tropicbirds:

No. Sightings			No. Birds			Birds/Sighting			Birds/Mile		
T	RT	WT	T	RT	WT	T	RT	WT	T	RT	WT
2	-	-	4	-	-	2	-	-	0.04		

IV. Abundance of Terns:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
66	2846	43.12	25.87

V. Abundance of Shorebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
0			

VI. Abundance of Boobys:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	BF	RF	B	T	BF	RF	B	T	BF	RF	B	T	BF	RF	B
13	4	8	3	268	7	132	9	20.62	1.75	16.50	3	2.44	0.06	1.20	0.08

VII. Abundance of Frigatebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
3	3	1	0.03

VIII. Abundance of Flocks:

Total No. Flocks	Total No. Birds	Total No. F/Mi.	No. Feeding Flocks	No. Feeding Birds	No. Feeding F/MI.
33	9685	0.30	4	3766	0.04

DATE TUE, 4 MAY 1965

TIME	LAT <i>N</i>	LONG <i>W</i>	PRES	WEA	VIS	SLP	DRY B	DEW PT	HUM <i>%</i>	TL SKY	OPA SKY	<i>SWELL</i> WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100																
0200																
0300																
0400																
0500																
0600																
0700																
0800																
0900																
1000																
1100																
1200																
1300																
1400	21-20	157-58														
1500	21-14	157-51														
1600	21-08	157-44	O'CAST	10	1013	71	73	75	10	9	080/5/8	76	11	090	120-6	
1700	21-03	157-37	O'CAST	10	1012	78	72	83	10	8	120/5/8	76	13	110	143-10	
1800	20-55	157-30	"	18	1012	77	71	83	10	8	140/5/8	76	17	110	143-9	
1900	20-47	157-24	Cloudy	20	1013	77	71	79	8	7	140/5/5	76	9	115	12 "	
2000	20-39	157-18	PHY	20	1013	77	71	79	5	3	130/5/5	76	9	115	12 10	
2100	20-33	157-10	"	20	1015	76	70	82	3	2	130-5-5	76	4	130	145 10	
2200	20-25	157-04	"	20	1015	76	70	82	3	2	130-5-5	76	4	130	145 10	
2300	20-17	156-57	"	20	1015	76	70	82	3	2	130-5-5	76	4	130	145 10	
2400	20-09	156-50	"	20	1015	76	70	82	3	2	130-5-5	76	4	130	145 10	

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES;
WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

SI-MNH-955

12-5-63

DATE WED, 5 MAY 1965

TIME	LAT	W	LONG	W	PRES	WEA	VIS	SLP	DRY B	DEW PT	HUMID %	TL SKY	OPA SKY	SWELL WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	20-01		156-46		PTLY CLOUDY		50	1014	76	70	82	5	4	130-5-5	76	6	050	145-10
0200	19-53		156-39		"		50	1014	77	70	82	8	6	130-5-5	76	4	020	145-10
0300	19-45		156-33		"		50	1014	77	71	82	5	4	130-5-5	76	5	010	145-10
0400	19-37		156-26W		"		50	1013	77	73	87	3	2	130-5-5	76	8	000	148-10
0500	19-27		156-18		"		25	1013	77	73	79	9	7	180-6-4	76	7	240	145-10
0600	19-19		156-01		"		25	1014	76	69	78	8	5	180-6-4	76	7	260	145-10
0700	19-11		156-04		"		25	1014	77	70	79	8	7	180-6-4	77	10	100	145-10
0800	19-03		155-58		"		25	1015	77	70	79	8	7	180-6-4	77	10	100	145-10
0900	18-53		155-51		O'CAST		20	1017	78	72	83	10	9	120-6-5	77	10	100	143-10
1000	18-46		155-45		"		20	1017	78	72	83	10	9	120-6-5	77	10	100	143-10
1100	18-38		155-38		"		20	1017	78	72	83	10	9	120-6-5	77	10	100	143-10
1200	18-27		155-32		"		20	1017	78	72	83	10	9	120-6-5	77	10	100	143-10
1300	18-26		155-29		"		20	1016	78	72	83	10	9	120/6/5	76	8	100	143-10
1400	18-18		155-23		"		20	1015	78	71	79	10	9	120/6/5	76	11	110	143-10
1500	18-10		155-17		"		20	1015	78	69	75	9	8	120/6/5	76	12	110	143-10
1600	18-03		155-11		"		20	1015	78	69	75	10	9	120/6/6	76	13	110	143-10
1700	17-57		155-04		"		20	1015	78	72	83	10	9	120/6/6	76	11	105	143-10
1800	17-50		154-58		"		20	1015	77	69	75	10	8	120/6/6	76	15	110	143-10
1900	17-42		154-53		"		20	1015	77	69	75	9	7	120/6/6	76	15	110	143-10
2000	17-35		154-47		"		20	1016	76	72	87	9	8	110/6/6	76	15	110	143-10
2100	17-29		154-42		O'CAST		10	1017	76	72	87	10	9	110-6-6	76	10	110	143-9
2200	17-21		154-36		"		10	1017	76	72	87	10	9	110-6-6	76	10	110	143-9
2300	17-14		154-30		"		10	1017	76	72	87	10	9	110-6-6	76	10	110	143-9
2400	17-07		154-24		"		10	1017	76	72	87	10	9	110-6-6	76	10	110	143-9

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES;
WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

SI-MNH-955

12-5-63

DATE THUR. MAY 6, 1965

TIME	LAT <i>N</i>	LONG <i>W</i>	PRES WEA	VIS	SLP	DRY B	DEW PT	HUMID %	TL SKY	OPA SKY	^{SWELL} WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	17-02	154-20	O'cast	10	1016	76	72	87	10	10	110-6-6	76	8	140	143-10
0200	16-53	154-15	Few clds	10	1015	77	71	82	4	3	110-6-6	76	10	105	" "
0300	16-45	154-10	"	10	1015	77	71	82	3	2	110-6-6	76	9	115	" "
0400	16-38	154-04	"	10	1014	76	72	81	3	2	110-6-6	76	10	120	" "
0500	16-33	153-53	Partly cldy	20	1014	76	72	87	7	4	110-6-5	76	8	120	" 90
0600	16-25	153-47	" "	20	1015	77	71	83	7	4	110-6-5	76	7	120	" "
0700	16-18	153-42	"	20	1015	77	71	83	9	7	110-6-5	76	7	120	" "
0800	16-11	153-36	O'cast	15	1016	76	70	82	10	9	110-6-5	76	5	110	143-9.2
0900	16-03	153-29	"	15	1016	76	70	82	10	9	110-6-5	76	5	110	143-9.2
1000	15-55	153-23	"	15	1016	76	70	82	10	9	110-6-5	77	5	110	143-9.2
1100	15-47	153-17	"	15	1016	76	70	82	10	9	110-6-5	77	5	110	143-9.2
1200	15-39	153-10	"	15	1016	76	70	82	10	9	110-6-5	77	5	110	143-9.2
1300	15-36	153-07	" RAIN	15	1015	76	70	82	10	9	110-6-5	76	10	085	143-9.2
1400	15-28	153-01	" "	5	1014	76	72	87	10	9	110-6-5	76	8	090	143-9.2
1500	15-21	152-55	HVY RAIN	3	1013	76	72	87	10	10	110-6-5	76	10	095	" "
1600	15-13	152-49	" "	1	1013	76 73	73	91	10	10	110-6-5	76	9	100	" "
1700	15-06	152-44	O'cast	20	1013	77	71	83	10	9	110-6-5	76	10	120	" "
1800	14-59	152-37	"	20	1013	78	78	79	10	9	110-6-5	76	10	120	" "
1900	14-51	152-31	"	20	1014	78	70	79	9	6	110-6-5	76	8	120	" "
2000	14-43	152-25	"	20	1014	78	70	79	7	5	110-6-5	76	7	120	" "
2100	14-36	152-16	"	20	1015	78	70	79	6	4	110-6-5	77	8	115	" "
2200	14-30	152-08	Partly cldy	20	1015	78	70	79	6	4	110-6-5	77	8	110	" "
2300	14-22	152-03	"	20	1015	78	70	79	3	2	110-6-5	77	6	105	" "
2400	14-14	151-56	Few clds	20	1015	78	70	79	2	1	110-6-5	77	5	100	" "

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES;
WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

SI-MNH-955

12-5-63

DATE FRI. 7 MAY 1965

TIME	LAT N	LONG W	PRES WEA	VIS	SLP	DRY B	DEW PT	HUMID %	TL SKY	OPA SKY	SWELL WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	14-10	151-53	CLEAR	20	1013	78.5	74	87	1	0	110-6-5	78	7	080	142-9.2
0200	14-04	151-48	"	20	1013	78	74	87	0	0	110-6-5	78	10	110	" "
0300	13-56	151-42	"	20	1013	78	74	87	0	0	110-6-5	78	10	090	" "
0400	13-48	151-36	"	20	1013	78	74	87	0	0	110-6-5	78	10	080	" "
0500	13-42	151-31	Cloud	20	1013	78	72	83	10	8	110-6-5	77	8	080	" "
0600	13-34	151-24	"	20	1013	78	72	83	9	8	107-6-5	77	9	080	" "
0700	13-27	151-18	"	20	1014	78	72	83	10	8	100-6-5	77	10	080	" "
0800	13-21	151-12	"	20	1014	78	72	83	10	8	103-6-5	77	10	080	" "
0900	13-19	151-08	"	20	1014	77	72	83	10	8	110-6-5	77	10	090	142 9
1000	13-12	151-03	"	20	1014	77	72	83	10	8	110-6-5	77	10	090	142 9
1100	13-05	150-56	"	20	1014	77	72	83	10	8	110-6-5	77	10	090	142 9
1200	12-58	150-48	"	20	1014	77	72	83	10	8	110-6-5	77	10	090	142 9
1300	12-46	150-43	"	15	1014	77	75	87	10	9	110-6-5	77	12	065	" "
1400	12-38	150-38	"	15	1012	77	75	87	10	9	110-6-5	77	10	045	" "
1500	12-30	150-32	" RAIN	15	1011	77	73	83	10	10	110-6-4	77	9	050	" "
1600	12-22	150-27	"	10	1011	77	75	87	10	10	110-6-4	77	10	050	" "
1700	12-18	150-25	" RAIN	10	1012	78	75	91	10	10	100-6-4	77	9	080	" "
1800	12-10	150-20	" "	10	1012	77	75	87	10	10	100-6-4	77	7	080	" "
1900	12-02	150-16	Cloud	20	1012	78	74	87	9	7	100-6-4	77	9	070	" "
2000	11-56	150-11	" RAIN	20	1012	78	74	87	9	8	100-6-4	77	10	070	" "
2100	11-48	150-04	Partly Cl	20	1012	80	74	83	4	3	100-6-4	77	10	080	142 9
2200	11-41	149-59	"	20	1012	80	74	83	4	3	100-6-4	77	10	080	142 9
2300	11-34	149-53	"	20	1012	80	74	83	4	3	100-6-4	77	10	080	142 9
2400	11-27	149-48	"	20	1012	80	74	83	4	3	100-6-4	77	10	080	142 9

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES;
WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

SI-MNH-955

12-5-63

DATE SAT 8 MAY 1965

TIME	LAT N	LONG W	PRES WEA	VIS	SLP	DRY B	DEW PT	HUMID %	TL SKY	OPA SKY	SWELL WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	11-21	149-41	FEW CLOS	20	1012	81	77	87	2	1	100-6-5	80	10	070	172-9
0200	11-13	149-34	"	20	1012	81	77	87	2	1	100-6-5	80	12	065	" "
0300	11-06	149-28	"	20	1012	80	77	91	4	3	100-6-5	80	13	070	" "
0400	10-58	149-22	PT CLOS	15	1012	80	77	91	5	5	100-6-5	80	14	070	" "
0500	10-51	149-20	"	20	1012	80	74	83	5	3	085-6-5	80	12	060	" "
0600	10-45	149-18	"	20	1012	80	74	83	5	2	085-6-5	80	12	060	" "
0700	10-40	149-12	FEW CLOS	20	1013	80	72	85	3	2	100-6-5	80	10	080	224 10
0800	10-37	149-16	"	20	1013	80	72	85	3	2	100-6-5	80	10	080	224 10
0900	10-35	149-20	"	20	1014	80	72	85	3	2	100-6-5	80	10	080	224 10
1000	10-29	149-24	"	20	1014	80	72	85	3	2	100-6-5	80	10	080	224 10
1100	10-22	149-31	"	20	1014	80	72	85	3	2	100-6-5	80	10	080	224 10
1200	10-15	149-38	"	20	1014	80	72	85	3	2	100-6-5	80	10	080	224 10
1300	10-08	149-45	O'CAST	15	1013	8480	7672	7685	9	8	100-6-5	80	6	115	224 10
1400	10-04	149-49	"	15	1012	18	74	87	10	9	100-6-5	80	8	100	" "
1500	9-57	149-57	"	15	1012	80	72	85	9	8	100-6-5	80	9	080	" "
1600	9-49	150-04	CLOUDY	20	1012	82	75	80	8	6	100-6-5	80	10	060	" "
1700	9-43	150-10	PHY CLOS	20	1013	82	75	80	7	5	080-6-5	80	10	080	" "
1800	9-38	150-18	"	20	1013	82	75	80	7	5	080-6-5	80	13	080	" "
1900	9-31	150-22	"	20	1013	82	75	80	9	5	080-6-5	80	13	060	" "
2000	9-24	150-29	"	20	1013	81	76	83	9	5	080-6-5	80	15	070	" "
2100	9-17	150-36	O'CAST	20	1014	81	76	83	9	6	080-6-5	80	10	070	224 10
2200	9-10	150-43	"	20	1014	81	76	83	9	6	080-6-5	80	10	070	224 10
2300	9-03	150-50	"	20	1014	81	76	83	9	6	080-6-5	80	10	070	224 10
2400	8-56	150-57	"	20	1014	81	76	83	9	6	080-6-5	80	10	070	224 10

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES;
WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

SI-MNH-955

12-5-63

DATE SUN 9 MAY 1965

TIME	LAT <u>N</u>	LONG <u>W</u>	PRES WEA	VIS	SLP	DRY B	DEW PT	HUMID <u>o</u>	TL SKY	OPA SKY	WAVES <u>SWELL</u>	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	8-48	151-05	PT. CLDY	20	1013	81	77	87	5	4	080/6/5	80	12	080	224-10
0200	8-39	151-13	FEW CLDS	20	1012	81	77	87	3	2	080/6/5	80	14	075	224-10
0300	8-32	151-20	"	20	1011	81	77	87	2	1	080/6/5	80	15	070	" "
0400	8-25	151-27	"	20	1011	81	77	87	2	1	080/6/5	80	16	065	" "
0500	8-19	151-33	PHY CLDY	20	1011	81	77	88	8	2	080/6/5	80	15	060	" "
0600	8-12	151-41	"	20	1012	81	77	88	9	7	080/6/5	80	15	060	" "
0700	8-06	151-47	"	20	1013	82	77	84	6	5	080/6/5	80	13	060	" "
0800	8-00	151-52	"	20	1014	84	77	80	7	5	080/6/5	80	15	060	" "
0900	8-01	152-00	"	20	1014	85	77	80	7	4	080-6-5	80	12	070	270 10
1000	8-02	152-00	"	20	1014	85	77	80	7	4	080-6-5	80	12	070	270 10
1100	8-03	152-07	"	20	1014	85	77	80	7	4	080-6-5	80	12	070	270 10
1200	8-01	152-17	"	20	1014	85	77	80	7	4	080-6-5	80	12	070	270 10
1300	08-01	152-26	"	20	1012	85	77	76	8	5	080-6-5	82	14	090	" "
1400	8-01	152-34	"	20	1012	84	74	84	7	5	080-6-5	82	16	075	" "
1500	8-01	152-45	O CAST-RAIN 5	10	1011	82	79	92	10	9	080-6-5	82	10	090	" "
1600	8-01	152-49	O CAST-RAIN 10	10	1011	80	77	91	8	7	080-6-5	82	13	080	" "
1700	8-09	152-44	"	15	1011	82	77	84	6	5	080-6-5	82	15	080	" "
1800	8-13	152-38	"	15	1012	82	77	84	9	7	080-6-5	82	12	085	245 6
1900	8-16	152-34	"	15	1012	82	77	84	10	8	080-6-5	82	15	080	" 9
2000	8-24	152-29	"	15	1013	82	77	84	10	7	080-6-5	82	17	075	" "
2100	8-32	152-21	Partly CLDY	20	1014	81	78	83	5	4	080-6-5	82	15	070	045 9.5
2200	8-38	152-13	"	20	1014	81	78	83	5	4	080-6-5	82	15	070	045 9.5
2300	8-46	152-06	"	20	1014	81	78	83	5	4	080-6-5	82	15	070	045 9.5
2400	8-53	151-59	"	20	1014	81	78	83	5	4	080-6-5	82	15	070	045 9.5

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES;
WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

SI-MNH-955
12-5-63

DATE MON. 10 MAY 1965

89

TIME	LAT N	LONG W	PRES WEA	VIS	SLP	DRY B	DEW PT	HUMID %	TL SKY	OPA SKY	SWELL WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	9-02	151-56	PT. CLOUDY	20	1013	80.1	76	87	8	5	080/6/5	80	17	090	044 9.5
0200	9-10	151-50	"	15	1012	80	76	87	4	3	080/6/5	80	18	075	" "
0300	9-17	151-45	CLOUDY	15	1012	80	76	87	10	4	080/6/5	80	17	080	" "
0400	9-24	151-39	"	15	1011	80	76	87	10	3	080/6/5	80	16	080	" "
0500	9-29	151-34	PT. CLOUDY	20	1012	80	74	83	9	7	080/6/5	80	18	075	" "
0600	9-35	151-31	"	20	1013	80	74	83	7	5	080/6/5	80	18	075	" "
0700	9-34	151-42	"	20	1013	80	76	87	8	6	080/6/5	80	18	070	278 10
0800	9-34	151-53	"	20	1013	80	76	87	8	6	080/6/5	80	18	070	" "
0900	9-35	152-00	O'cast	20	1014	83	75	80	10	9	070-6-7	80	15	060	270 10
1000	9-35	152-10	"	20	1015	83	75	80	10	9	070-6-7	80	15	060	270 10.5
1100	9-35	152-21	"	20	1015	83	75	80	10	9	070-6-7	80	15	060	270 10.5
1200	9-35	152-32	"	20	1015	83	75	80	10	9	070-6-7	80	15	060	270 10.5
1300	9-35	152-43	O'cast	20	1013	82	75	80	10	9	070-6-7	80	15	065	270 "
1400	9-35	152-55	"	20	1012	82	75	80	10	9	070-6-7	80	14	075	" "
1500	9-35	153-07	"	20	1012	81	75	83	10	9	070-6-7	80	15	070	" "
1600	9-35	153-18	"	20	1012	81	75	83	10	9	070-6-7	80	16	070	" "
1700	9-35	153-30	"	20	1013	81	75	83	10	9	070-6-7	80	15	070	" "
1800	9-35	153-42	"	20	1013	80	74	83	10	9	070-6-7	80	14	075	" "
1900	9-35	153-53	"	20	1013	81	74	80	10	9	060-7-5	80	15	070	" "
2000	9-34	154-05	"	20	1014	81	74	83	10	9	060-7-5	80	12	070	270 "
2100	9-30	154-15	"	20	1015	81	74	83	10	9	060-7-5	80	12	070	248 11.0
2200	9-26	154-25	"	20	1015	81	74	83	10	9	060-7-5	80	12	070	248 11.0
2300	9-22	154-35	"	20	1015	81	74	83	10	9	060-7-5	80	12	070	248 11.0
2400	9-18	154-46	"	20	1015	81	74	83	10	9	060-7-5	80	12	070	248 11.0

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES;
WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

SI-MNH-955

12-5-63

DATE TUES. 11 MAY 1965

85

TIME	LAT	N	LONG	W	PRES	WEA	VIS	SLP	DRY B	DEW PT	HUMID %	TL SKY	OPA SKY	SWELL WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	9-13		154-52		01	CAST	20	1013	80	74	83	10	10	060-7-5	80	15	065	248- 11.0
0200	9-08		155-03		"	"	20	1012	80	74	83	10	10	060-7-5	80	16	060	" "
0300	9-04		155-13		"	"	20	1012	80	74	83	10	10	060-7-5	80	17	050	" "
0400	9-00		155-24		"	"	20	1012	80	74	83	10	10	060-7-5	80	15	060	" "
0500	8-56		155-35		PT	CLDY	20	1012	80	74	83	5	2	060-7-5	80	15	060	" "
0600	8-52		155-46		"	"	20	1013	80	74	83	7	4	060-7-5	80	17	062	" "
0700	8-45		155-46		"	"	20	1013	80	74	83	7	4	062-7-5	80	17	065	" "
0800	8-42		155-51		"	"	20	1014	81	74	76	6	4	062-7-5	81	17	065	" "
0900	8-38		156-01		"	"	20	1014	81	76	76	5	4	060-7-5	81	20	060	248 11.0
1000	8-34		156-11		"	"	20	1014	81	76	76	5	4	060-7-5	81	20	060	248 11.0
1100	8-30		156-21		"	"	20	1014	81	76	76	5	4	060-7-5	81	20	060	248 11.0
1200	8-26		156-31		"	"	20	1014	81	76	76	5	4	060-7-5	81	20	060	248 11.0
1300	8-21		156-39		PT	CLDY	20	1013	84	76	76	4	3	060-7-6	81	20	065	" "
1400	8-12		156-46		"	"	20	1012	85	77	77	4	3	060-7-6	81	19	065	" "
1500	8-06		156-51		"	"	20	1011	85	77	77	5	4	060-7-6	81	18	060	" "
1600	8-01		157-03		"	"	20	1011	85	75	73	6	5	060-7-6	81	20	065	270 "
1700	8-04		157-09		"	"	20	1011	84	76	76	4	2	060-7-6	81	21	060	" "
1800	8-09		157-12		"	"	20	1011	81	78	88	8	2	060-7-6	81	23	060	" "
1900	8-10		157-17		"	"	20	1012	81	78	88	8	6	060-7-6	81	23	060	" "
2000	8-10		157-28		"	"	20	1012	81	78	88	7	5	060-7-6	81	21	060	" "
2100	8-15		157-39		FEW	CLDS	20	1013	81	78	88	4	3	060-7-6	82	20	070	270 11.0
2200	8-15		157-50		"	"	20	1013	81	78	88	4	3	060-7-6	82	20	070	270 11.0
2300	8-15		158-01		"	"	20	1013	81	78	88	4	3	060-7-6	82	20	070	270 11.0
2400	8-15		158-16		"	"	20	1013	81	78	88	4	3	060-7-6	82	20	070	270 11.0

REMARKS: 2300 RETURN Clouds 20 min. to 20. + 10. 20

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES;
WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

SI-MNH-955
12-5-63

DATE WED 12 MAY 1965

TIME	LAT N	LONG W	PRES WEA	VIS	SLP	DRY B	DEW PT	HUMID %	TL SKY	OPA SKY	SWELL WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
10-20 0100	8-15	158-28	CLDY	20	1012	82	77	84	6	5	060-7-6	81	20	065	270°-11.0
0200	8-15	158-29	CLDY	20	1011	82	77	84	7	6	060-7-6	81	20	055	" "
0300	8-15	158-50	Few CLDS	20	1011	81	75	83	5	4	060-7-6	81	17	070	" "
10-40 0400	8-15	159-02	"	20	1011	81	75	83	3	2	060-7-6	81	14	080	" "
0500	8-13	159-14	"	20	1014	81	75	83	5	2	060-7-6	81	14	065	" 10.5
0600	8-13	159-28	"	20	1012	81	75	83	3	1	060-7-6	81	14	070	" "
0700	8-14	159-36	"	20	1012	84	76	76	2	1	060-7-6	81	13	070	" "
0800	8-14	159-43	"	20	1013	87	78	74	3	1	060-7-5	81	11	060	" "
0900	8-13	159-54	"	20	1013	88	77	71	3	1	060-7-5	81	12	060	270 10.2
1000	8-15	160-04	"	20	1013	88	77	71	3	1	060-7-5	81	12	060	270 10.2
1100	8-15	160-14	"	20	1013	88	77	71	3	1	060-7-5	81	12	060	270 10.2
1200	8-15	160-24	"	20	1013	88	77	71	3	1	060-7-5	81	12	060	270 10.2
1300	8-12	160-28	PT CLDY	20	1012	88	77	71	6	4	060-7-5	82	11	070	" "
1400	8-12	160-37	"	20	1011.5	87	77	73	5	3	060-7-5	82	10	065	" "
1500	8-12	160-46	"	20	1011	87	77	73	3	2	060-7-5	82	11	065	" "
1600	8-12	160-57	"	20	1010.5	87	77	73	5	4	060-7-5	82	11	070	" "
1700	8-10	161-07	"	20	1011	84	77	80	7	5	060-7-5	82	10	065	" "
1800	8-10	161-18	"	20	1012	82	77	84	8	5	060-7-5	82	7	060	" "
1900	8-10	161-25	"	20	1012	82	77	84	10	8	060-7-4	82	7	050	" 7
2000	8-10	161-33	"	20	1012	81	76	87	6	5	060-7-4	82	4.2	-	" "
2100	8-07	161-50	"	20	1012	81	76	87	6	5	070-7-3	82	"	-	270 10.5
2200	8-07	162-00	"	20	1012	81	76	87	6	5	070-7-3	82	"	-	270 10.5
2300	8-07	162-10	"	20	1012	81	76	87	6	5	070-7-3	82	"	-	270 10.5
2400	8-07	162-21	"	20	1012	81	76	87	6	5	070-7-3	82	"	-	270 10.5

REMARKS:

XRAY AFTER 0500

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES;
WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

SI-MNH-955

12-5-63

DATE THURS 13 MAY 1965

TIME	LAT N	LONG W	PRES WEA	VIS	SLP	DRY B	DEW PT	HUMID %	TL SKY	OPA SKY	SWELL WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	8-06	162-32	PT. CLDY	20	1010	80	77	91	5	4	070-7-3	82	10	060	270-10.5
0200	8-06	162-43	"	20	1010	81	77	87	6	5	070-7-3	82	10	060	" "
0300	8-05	162-53	"	20	1010	81	77	87	6	5	070-7-3	82	10	065	" "
0400	8-05	163-04	"	20	1010	81	77	87	7	5	070-7-3	82	10	070	" "
0500	8-05	163-14	"	20	1011	81	77	87	8	6	CONF	82	18	070	22 "
0600	8-06	163-26	"	20	1011	81	77	87	8	6	CONF	82	18	070	" "
0700	8-07	163-36	" / mist	20	1012	82	77	84	9	7	CONF	82	12	080	" "
0800	8-08	163-46	B'cast "	15	1012	80	77	91	10	8	CONF	82	12	090	" "
0900	8-16	163-52	"	10	1012	82	77	84	10	10	CONF	82	12	090	322 10.5
1000	8-24	163-59	RAIN	5	1012	82	77	84	10	10	"	82	12	090	322 10.5
1100	8-32	164-06	"	5	1012	82	77	84	10	10	"	82	12	090	322 10.5
1200	8-40	164-12	"	5	1012	82	77	84	10	10	"	82	12	090	322 10.5
1300	8-50	164-19	CLDY	20	1011	80	76	87	8	6	"	81	8	090	" "
1400	8-59	164-28	FEW CLOS	20	1010	82	77	84	4	3	"	81	10	090	" "
1500	9-08	164-36	"	20	1009	82	77	84	3	2	"	81	11	080	" "
1600	9-17	164-43	"	20	1009	82	77	84	4	3	"	81	12	070	" "
1700	9-22	164-52	"	20	1010	82	77	84	4	1	"	81	14	070	" "
1800	9-30	165-00	"	20	1010	82	77	84	3	1	"	81	14	070	" 14/10
1900	9-38	165-07	"	20	1011	82	77	84	2	1	"	81	13	070	" "
2000	9-47	165-14	"	20	1011	82	77	84	4	2	"	82	13	070	" "
2100	9-56	165-20	"	20	1012	81	76	87	2	1	070-6-4	82	15	070	326 11.0
2200	10-06	165-26	"	20	1012	81	76	87	2	1	070-6-4	82	15	070	326 11.0
2300	10-16	165-32	"	20	1012	81	76	87	2	1	070-6-4	82	15	070	326 11.0
2400	10-25	165-39	"	20	1012	81	76	87	2	1	070-6-4	82	15	070	326 11.0

REMARKS:

XRAY
ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES;
WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

SI-MNH-955

12-5-63

DATE FRI. 14 MAY 1965

TIME	LAT N	LONG W	PRES WEA	VIS	SLP	DRY B	DEW PT	HUMID %	TL SKY	OPA SKY	SWELL WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	10-31	165-50	CLOUDY	20	1011	81	77	87	9	8	070-6-4	81	16	095	325-11.0
0200	10-38	165-56	PT. CLDY	20	1010	81	77	87	4	3	070-6-4	81	14	090	" "
0300	10-45	166-03	"		1010	80	76	87	6	5	070-6-4	81	12	095	" "
0400	10-54	166-11	"		1010	80	76	87	7	5	070-6-4	81	12	100	335-11.0
0500	10-55 10-55	166-11	"	20	1010	80	76	87	7	7	070-6-4	81	13	070	325-11
0600	11-15	166-17	"	20	1011	80	76	87	5	3	070-6-4	81	12	070	" "
0700	11-25	166-25	"	20	1011	80	76	87	3	1	070-6-4	81	11	070	" "
0800	11-34	166-32	"	20	1011	82	75	80	6	3	070-6-4	82	11	080	" "
0900	11-43	166-39	"	20	1012	82	75	80	5	4	070-6-4	82	10	070	325-11.0
1000	11-52	166-45	"	20	1012	82	75	80	5	4	070-6-4	82	10	070	325-11.0
1100	12-00	166-52	"	20	1012	82	75	80	5	4	070-6-4	82	10	070	325-11.0
1200	12-09	166-58	"	20	1012	82	75	80	5	4	070-6-4	82	10	070	325-11.0
1300	12-18	167-05	"	20	1011	82	74	76	5	4	070-6-4	81	11	080	" "
1400	12-26	167-12	Few CLDS	20	1011	82	74	76	3	2	070-6-4	81	8	080	" "
1500	12-35	167-20	"	20	1011	82	74	76	3	2	070-6-4	81	10	080	" "
1600	12-45	167-26	"	20	1010	82	74	76	4	3	070-6-4	81	11	080	" "
1700	12-55 12-55	167-33	"	20	1010	81	74	80	7	5	070-6-4	81	11	070	" "
1800	13-05	167-40	CLDY	20	1011	80	74	83	9	6	070-6-4	81	11	070	" "
1900	13-12	167-47	"	20	1011	80	74	83	10	7	070-6-4	81	10	070	" "
2000	13-20	167-54	"	20	1012	80	74	83	9	7	070-6-4	81	11	070	" "
2100	13-29	168-00	"	20	1012	81	73	79	10	2	070-6-3	81	ARS	—	324 11 KT
2200	13-39	168-06	"	20	1012	81	73	79	10	2	070-6-3	81	ARS	—	324 11 KT
2300	13-49	168-13	"	20	1012	81	73	79	10	2	070-6-3	81	ARS	—	319 11 KT
2400	13-58	168-21	"	20	1012	81	73	79	12	2	070-6-3	81	ARS	—	319 11 KT

REMARKS:

XRAY

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES;
WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

SI-MNH-955

12-5-63

DATE SAT 15 MAY 1965

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUMID %	TL SKY	OPA SKY	SWELL WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	14-05	168-28	CLOUDY	20	1013	81	74	79	7	6	070-6-3	81	14	085	319-11Kn
0200	14-13	168-35	"	20	1011	81	74	79	9	8	070-6-3	81	10	095	319-11
0300	14-21	168-43	"	20	1011	81	74	79	8	7	070-6-3	81	11	090	319-11
0400	14-26	168-50	"	20	1011	81	74	79	9	8	070-6-3	81	12	085	224-11
0500	14-18	168-58	"	20	1011	81	75	80	10	8	070-6-3	81	10	090	" "
0600	14-11	169-06	"	20	1012	80	73	79	9	7	070-6-3	81	9	090	" "
0700	14-03	169-14	PTLY CLDY	20	1012	81	75	80	8	6	070-6-3	81	12	090	" "
0800	13-54	169-26	"	20	1013	82	75	80	6	4	070-6-3	81	13	090	" "
0900	13-48	169-29	FW CLDY	20	1013	83	75	80	3	2	110-5-3	81	2	110	224 10.5
1000	13-42	169-35	"	20	1013	83	75	80	3	2	110-5-3	81	8	110	224 10.5
1100	13-35	169-43	"	20	1013	83	75	80	3	2	110-5-3	84	7	110	224 10.5
1200	13-29	169-48	"	20	1013	83	75	80	3	2	110-5-3	84	8	110	224 10.5
1300	13-20	169-57	PT CLDY	20	1012	83	75	76	6	4	110-5-3	81	8	090	224 10.5
1400	13-12	170-05	CLDY	20	1012	83	75	76	9	7	110-5-3	81	8	095	224 10.5
1500	13-04	170-13	"	20	1011.5	82	75	80	9	7	110-5-3	81	9	090	224 10.5
1600	12-57	170-21	"	20	1011	82	75	80	4	7	110-5-3	81	10	090	224 10.5
1700	12-49	170-29	"	20	1011	82	75	80	7	5	110-5-3	81	12	090	" "
1800	12-42	170-35	"	20	1011	82	75	80	6	5	110-5-3	81	9	100	" "
1900	12-38	170-43	"	20	1012	82	75	80	7	5	110-5-3	81	7	090	" "
2000	12-28	170-51	"	20	1012	82	75	80	7	5	110-5-3	81	7	090	" "
2100	12-20	170-59	"	20	1012	82	75	80	9	7	110-5-3	81	5	110	224 10.5
2200	12-13	171-05	"	20	1012	82	75	80	9	7	110-5-3	81	5	110	224 10.5
2300	12-05	171-12	"	20	1012	82	75	80	9	7	110-5-3	81	5	110	224 10.5
2400	12-12	171-20	"	20	1012	82	75	80	9	7	110-5-3	81	5	110	315 10.5

REMARKS:

XRAY

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES;
WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

SI-MNH-955
12-5-63

DATE SUN 16 MAY 1965

TIME	LAT <u>N</u>	LONG <u>W</u>	PRES WEA	VIS	SLP	DRY B	DEW PT	HUMID %	TL SKY	OPA SKY	SWELL WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	12-19	171-28	CLOUDY	20	1012	82	77	84	9	7	110-5-3	81	12	075	315 10.5
0200	12-27	171-36	"	20	1011	82	77	84	9	7	110-5-3	81	10	080	" "
0300	12-35	171-44	"	20	1011	82	77	84	8	6	110-5-3	81	12	080	" "
0400	12-43	171-48	"	20	1011	81	77	87	8	6	110-5-3	81	13	080	046 10.5
0500	12-54	171-37	Partly Cldy	20	1011	81	77	87	7	5	110-5-3	81	11	090	" "
0600	13-02	171-30	" "	20	1011	81	77	87	3	1	110-5-3	81	21	080	" "
0700	13-09	171-22	" "	20	1012	82	77	84	5	3	110-5-3	81	11	085	" "
0800	13-16	171-14	" "	20	1012	82	77	84	3	1	110-5-3	81	11	080	" "
0900	13-21	171-09	"	20	1013	84	77	86	4	1	110-5-3	81	10	080	046 10.5
1000	13-28	171-02	"	20	1013	84	77	80	4	1	110-5-3	81	10	080	046 10.5
1100	13-37	170-54	"	20	1013	84	77	80	4	1	110-5-3	81	10	080	046 10.5
1200	13-44	170-46	"	20	1013	84	77	80	4	1	110-5-2	81	10	080	046 10.5
1300	13-50	170-40	LT. SHRS	10	1012	85	78	80	8	7	110-5-3	81	12	090	046 10.5
1400	13-56	170-32	" 025T	10	1012	85	78	80	9	8	110-5-3	81	11	110	046 10.5
1500	14-03	170-25	" "	15	1011	82	75	80	9	7	110-5-4	81	14	095	046 10.5
1600	14-11	170-17	" "	10	1011	82	75	80	9	8	100-5-5	81	15	095	046 10.5
1700	14-21	170-16	CLOUDY	15	1012	81	77	88	10	8	100-5-5	81	17	050	" "
1800	14-28	170-08	CLOUDY	8	1012	80	77	91	10	9	100-5-5	81	20	045	" "
1900	14-35	170-01	" "	6	1012	80	77	91	10	9	100-5-5	81	17	050	" "
2000	14-42	169-53	" "	6	1013	79	76	81	10	10	CONF	81	17	050	" "
2100	14-49	169-46	RAIN	8	1013	77	72	87	10	10	090-5-5	81	20	070	049 10
2200	14-56	169-38	"	8	1013	77	72	87	10	10	090-5-5	81	20	070	049 10
2300	15-02	169-33	"	8	1013	77	72	87	10	10	090-5-5	81	20	070	049 8
2400	15-09	169-40	"	8	1013	77	72	87	10	10	090-5-5	81	20	070	315 10.5

REMARKS:

XRAY
ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES;
WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

SI-MNH-955

12-5-63

DATE MON 17 MAY 1965

TIME	LAT <u>N</u>	LONG <u>W</u>	PRES WEA	VIS	SLP	DRY B	DEW PT	HUMID %	TL SKY	OPA SKY	^{SWELL} WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	15-18	169-50	RAIN	8	1013	78	71	79	10	10	090-5-5	80	22	080	315 10.5
0200	15-27	169-58	RAIN	10	1013	78	71	79	10	10	090-5-5	80	24	085	315 10.5
0300	15-35	170-08	RAIN	8	1012	77	71	82	10	10	090-5-5	80	22	090	315 10.5
0400	15-32	170-15	RAIN	6	1012	76	70	82	10	10	090-5-5	80	20	090	224 10.5
0500	15-15	170-25	"	8	1012	76	73	91	10	10	092-5-5	80	18	090	" "
0600	15-38	170-31	cast w/rain	12	1011	77	75	91	10	10	090-5-5	80	23	080	" "
0700	15-00	170-38	" "	6	1012	78	75	91	10	10	090-5-5	80	17	070	" "
0800	14-52	170-46	" "	8	1012	78	75	91	10	10	090-5-6	80	23	070	" "
0900	14-46	170-55	CAST RAIN	4	1014	76	75	95	10	10	050-6-6	80	20	050	224 10.5
1000	14-39	171-03	"	4	1014	76	75	95	10	10	050-6-6	80	20	050	224 10.5
1100	14-32	171-11	"	4	1014	76	75	95	10	10	050-6-6	80	20	050	224 10.5
1200	14-24	171-19	"	4	1014	76	75	95	10	10	050-6-6	80	20	050	224 10.5
1300	14-16	171-25	" "	3	1013	76	72	87	10	10	050-6-6	81	17	045	224 10.5
1400	14-07	171-34	" "	8	1012	76	73	91	10	9	050-6-6	81	21	040	224 10.5
1500	13-58	171-42	O'CAST	12	1011	77	74	91	10	9	060-6-7	81	25	070	224 10.5
1600	13-52	171-50	"	10	1011	78	75	91	10	9	060-6-7	81	19	065	224 10.5
1700	13-43	171-59	" w/rain	10	1011	78	75	91	10	9	060-6-7	81	20	080	" 11.0
1800	13-36	172-07	"	15	1011	77	74	91	10	9	060-6-7	81	17	050	" "
1900	13-28	172-15	"	15	1012	77	73	87	10	8	060-6-7	81	20	080	" "
2000	13-20	172-23	"	15	1012	77	73	87	10	8	060-6-7	81	17	080	" "
2100	13-21	172-31	O'CAST	15	1012	79	87	72	10	9	080-6-7	81	20	080	315 11.0
2200	13-20	172-39	"	15	1012	79	87	72	10	9	080-6-7	81	20	080	315 11.0
2300	13-36	172-47	"	15	1012	79	87	72	10	9	080-6-7	81	18	080	315 11.0
2400	13-45	172-55	"	15	1012	79	87	72	10	9	080-6-7	81	18	080	315 11.0

REMARKS:

XRAY

ALL TIMES LOCAL (~~WHISKEY~~); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES;
WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

SI-MNH-955
12-5-63

DATE TUES 18 MAY 1965

TIME	LAT <u>N</u>	LONG <u>W</u>	PRES WEA	VIS	SLP	DRY B	DEW PT	HUMID %	TL SKY	OPA SKY	<u>SWELL</u> WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	13-52	173-02	CLOUDY	15	1012	79	73	83	9	8	080-6-7	80	14	120	045-10.5
0200	14-01	172-58	"	15	1011	79	73	83	10	9	080-6-7	80	10	130	045-10.0
0300	14-08	172-49	"	15	1011	79	73	83	10	7	080-6-7	80	8	140	045-10.0
0400	14-15	172-43	"	15	1011	79	73	83	10	6	080-6-7	80	6	150	045-10.0
0500	14-17	172-38	"	20	1012	78	74	87	10	8	080-6-5	80	Airs		8.5
0600	14-21	172-32	4/10 rain	20	1012	78	74	87	10	8	080-6-5	80	6	100	11 10.5
0700	14-30	172-25	Clear	20	1013	77	72	83	10	7	080-6-5	80	Airs		"
0800	14-37	172-17	"	20	1014	80	73	79	9	7	070-6-5	80	8	050	045 10
0900	14-42	172-13	"	20	1014	80	73	79	9	7	070-6-5	80	8	050	045 10
1000	14-49	172-06	"	20	1014	82	72	72	9	7	070-6-5	80	8	050	045 10
1100	14-57	171-59	"	20	1014	83	69	65	9	7	070-6-5	80	8	050	047 10
1200	15-05	171-51	"	20	1014	83	69	65	9	7	070-6-5	80	8	050	047 10
1300	15-13	171-43	"	20	1012	82	74	76	9	8	070-6-5	81	9	040	047 10
1400	15-19	171-37	CLOUDY	20	1012	82	74	76	8	6	040-6-5	81	12	030	047 10
1500	15-24	171-32	"	20	1012	81	74	79	9	7	040-6-5	81	12	035	047 10
1600	15-31	171-25	O'CAST	20	1011	81	73	76	10	9	040-6-5	81	11	030	047 10
1700	15-39	171-17	"	20	1011	79	72	75	10	9	040-6-5	81	13	015	" 11
1800	15-46	171-10	4/10 rain	15	1011	78	74	87	10	8	040-6-5	81	12	040	" 11
1900	15-53	171-03	O'cast	15	1012	78	72	75	9	7	040-6-5	81	8	020	" 11
2000	16-00	170-55	"	15	1012	78	69	75	10	8	040-6-5	81	12	010	" 11
2100	16-07	170-46	"	10	1014	77	70	82	10	10	050-6-4	81	10	040	047 10
2200	16-14	170-39	"	10	1014	77	70	82	10	10	050-6-4	81	10	040	047 10
2300	16-22	170-46	"	10	1014	77	70	82	10	10	050-6-4	81	10	040	315 11
2400	16-29	170-54	"	10	1014	77	70	82	10	10	050-6-4	81	10	040	315 11

REMARKS:

ALL TIMES LOCAL XRAY (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES;
WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

SI-MNH-955
12-5-63

DATE WED 19 MAY 1965

TIME	LAT <i>N</i>	LONG <i>W</i>	PRES WEA	VIS	SLP	DRY B	DEW PT	HUMID %	TL SKY	OPA SKY	<i>SWELL</i> WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	16-37	171-02	O'CAST	10	1014	79	72	79	10	9	050-6-4	79	12	050	315-10.5
0200	16-43	171-08	O'CAST	10	1013	79	72	79	10	9	050-6-4	79	14	055	315-10.5
0300	16-40	171-16	"	15	1012	78	69	75	10	9	050-6-4	79	12	040	223-10.5
0400	16-33	171-24	"	15	1012	78	69	75	10	9	050-6-4	79	12	030	223-10.5
0500	16-26	171-31	"	20	1013	78	69	75	9	7	050-6-4	79	12	040	" "
0600	16-18	171-38	"	20	1013	78	71	79	8	6	050-6-4	79	12	040	" "
0700	16-12	171-46	"	20	1013	79	72	85	8	6	050-6-4	80	12	040	" "
0800	16-05	171-53	"	20	1014	79	70	85	9	7	050-6-4	80	13	040	" "
0900	15-54	172-05	Few Cls	20	1014	82	71	69	5	4	050-6-4	80	15	045	223 10
1000	15-47	172-13	"	20	1014	82	71	69	5	4	050-6-4	80	15	045	223 10
1100	15-45	172-22	"	20	1014	82	71	69	5	4	050-6-4	80	15	045	223 10
1200	15-38	172-29	"	20	1014	82	71	69	5	4	050-6-4	80	15	045	223 10
1300	15-29	172-41	"	20	1014	86	78	77	4	3	050-6-4	80	12	045	221 10
1400	15-25	172-46	"	20	1013	88	80	77	4	2	050-6-4	80	11	045	221 10
1500	15-20	172-50	PT CLDY	20	1012	86	75	70	7	5	050-6-4	80	11	050	221 10
1600	15-15	172-57	CLDY	20	1012	84	70	62	8	6	050-6-4	80	12	050	221 10
1700	15-06	173-05	"	20	1012	84	70	62	8	6	050-6-4	80	12	050	" "
1800	14-58	173-14	"	20	1012	82	71	69	8	6	050-6-4	80	13	050	" "
1900	14-51	173-22	"	20	1012	82	71	69	7	6	050-6-4	80	12	050	" "
2000	14-43	173-29	"	20	1013	82	71	69	9	7	050-6-4	80	12	050	" "
2100	14-35	173-37	Few Cls	20	1013	80	72	75	3	2	050-6-4	80	10	050	224 10.5
2200	14-33	173-44	"	20	1013	80	72	75	3	2	050-6-4	80	10	050	224 10.5
2300	14-42	173-52	"	20	1013	80	72	75	3	2	050-6-4	80	10	050	315 10.5
2400	14-49	174-00	"	20	1013	80	72	75	3	2	050-6-4	80	10	050	315 10.5

REMARKS:

XRAY

ALL TIMES LOCAL (~~WHISKEY~~); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES;
WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

SI-MNH-955.

12-5-63

DATE TUURS, 20 MAY 1965

TIME	LAT N	LONG W	PRES WEA	VIS	SLP	DRY B	DEW PT	HUMID %	TL SKY	OPA SKY	SWELL WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	14-56	174-07	PT. CLOUDY	20	1012	80	72	75	4	3	050-6-4	80	14	070	318°-10.5
0200	15-03	174-14	FEW CLOUDS	20	1012	79	69	71	3	2	050-6-4	80	13	070	046-10.5
0300	15-11	174-06	"	20	1011	80	70	72	4	3	050-6-4	80	13	075	046-10.0
0400	15-18	173-59	"	20	1011	80	70	72	3	2	050-6-4	80	11	080	046-10.0
0500	15-22	173-54	PTLY CLOUDY	20	1011	78	69	75	7	5	050-6-4	80	11	065	"-9.5
0600	15-28	173-49	"	20	1012	79	72	75	5	3	050-6-4	80	12	060	"
0700	15-34	173-43	"	20	1012	80	73	79	3	2	050-6-4	80	12	060	"
0800	15-40	173-36	FW CLOUDS	20	1014	80	73	79	3	2	040-6-4	80	10	040	046-9.5
0900	15-47	173-29	"	20	1014	82	74	76	2	1	040-6-4	80	10	040	046-9.5
1000	15-53	173-22	"	20	1014	82	74	76	2	1	040-6-4	80	10	040	046-9.5
1100	15-59	173-14	"	20	1014	82	74	76	2	1	040-6-4	80	10	040	045-9.5
1200	16-06	173-07	"	20	1014	82	74	76	2	1	040-6-4	80	10	040	045-9.5
1300	16-13	173-01	"	20	1013	84	74	73	3	2	040-6-4	80	10	035	045-9.5
1400	16-18	172-57	"	20	1013.0	84	74	73	4	3	040-6-4	80	10	035	045-9.5
1500	16-20	172-55	PT CLOUDY	20	1013	83	75	76	5	3	040-6-4	80	12	040	045-9.5
1600	16-26	172-48	"	20	1013.2	81	74	79	5	3	040-6-4	80	13	045	045-9.5
1700	16-34	172-42	"	20	1012	80	73	79	8	5	040-6-4	80	15	045	46-10.0
1800	16-42	172-35	"	20	1012	80	74	83	9	7	040-6-4	80	15	045	"
1900	16-49	172-28	"	20	1013	79	75	87	8	7	040-6-4	80	15	060	"
2000	16-56	172-22	"	20	1013	79	75	87	8	7	040-6-5	80	15	060	"
2100	17-03	172-16	O'CAS	15	1014	79	75	87	10	9	050-6-4	80	10	050	046-9.5
2200	17-10	172-10	"	15	1014	79	75	87	10	9	050-6-4	80	10	050	046-9.5
2300	17-19	172-03	"	15	1014	79	75	87	10	9	050-6-4	80	10	050	046-9.5
2400	17-26	171-55	"	15	1014	79	75	87	10	9	050-6-4	80	10	050	047-9.5

REMARKS:

ALL TIMES LOCAL (XRAY WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES;
WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

SI-MNH-955

12-5-63

DATE FRI 21 MAY '65

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUMID %	TL SKY	OPA SKY	SWELL WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	17-32	171-50	O'CAST	15	1013	78	71	79	10	9	050-6-4	78	11	060	047 9.5
0200	17-34	171-42	"	15	1012	78	71	79	10	9	050-6-4	78	12	065	047 9.5
0300	17-46	171-35	"		1012	78	71	79	10	9	050-6-4	78	11	065	047 9.5
0400	17-53	171-28	"		1012	78	71	79	10	9	050-6-4	78	11	070	047 9.5
0500	18-54	171-24	FLY CDS	20	1012	77	71	83	7	4	020-6-4	78	11	070	" "
0600	18-00	171-17	" "	20	1012	77	73	82	5	2	020-6-4	78	11	070	" "
0700	18-06	171-09	" "	20	1013	78	72	83	6	3	"	78	11	070	" "
0800	18-13	171-03	" "	20	1013	78	72	83	7	5	"	78	13	045	" "
0900	18-21	170-53	"	20	1014	81	72	75	7	5	070-6-4	80	10	070	047 9.5
1000	18-28	170-46	"	20	1014	81	72	75	7	5	070-6-4	80	10	070	047 9.5
1100	18-35	170-39	"	20	1014	81	72	75	7	5	070-6-4	80	10	070	047 9.5
1200	18-42	170-32	"	20	1014	81	72	75	7	5	070-6-4	80	10	070	047 9.5
1300	18-46	170-28	FEW CDS	20	1014	81	73	75	4	3	070-6-4	79	10	050	047 9.5
1400	18-49	170-25	"	20	1013	81	73	75	3	2	070-6-4	79	10	045	047 9.5
1500	18-51	170-23	"	20	1013	80	72	75	3	2	070-6-4	79	11	050	047 9.5
1600	18-57	170-17	"	20	1013	80	72	75	2	1	070-6-4	79	10	050	047 9.5
1700	19-00	170-13	"	20	1013	80	72	75	3	1	070-6-4	79	10	050	" "
1800	19-03	170-10	"	20	1014	80	72	75	2	1	070-6-4	79	10	050	" "
1900	19-04	170-07	"	20	1014	79	72	79	3	1	070-6-4	79	7	050	" "
2000	19-16	169-57	"	20	1014	79	72	79	3	1	070-6-4	79	7	050	" "
2100	19-18	169-50	"	20	1016	79	74	87	1	0	070-5-4	80	5	050	047 9.5
2200	19-25	169-42	"	20	1016	78	74	87	1	0	070-5-4	80	5	050	047 9.5
2300	19-33	169-35	"	20	1016	78	74	87	1	0	070-5-4	80	5	050	047 9.5
2400	19-39	169-27	"	20	1016	78	74	87	1	0	070-5-4	80	5	050	047 9.5

REMARKS:

ALL TIMES LOCAL (XRAY WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES;
WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

SI-MNH-955
12-5-63

DATE SAT 22 MAY 1965

TIME	LAT N	LONG W	PRES WEA	VIS	SLP	DRY B	DEW PT	HUMID %	TL SKY	OPA SKY	SWELL WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	19-50	169-20	FEW CLDS	20	1015	78	72	83	3	2	050-5-4	78	4	060	047 - 9.5
0200	19-59	169-12	"	20	1014	78	72	83	3	2	050-5-4	78	3	065	047 - 9.5
0300	20-07	169-04	"	20	1014	78	72	83	2	1	050-5-4	78	7	070	047 - 9.5
0400	20-14	168-56	"	20	1014	78	72	83	2	1	050-5-4	78	6	065	047 - 9.5
0500	20-22	168-49	"	20	1015	78	72	83	7	4	050-5-4	78	4	065	047 - 9.5
0600	20-29	168-41	"	20	1015	78	72	83	5	2	050-5-4	79	2	070	047 - 9.5
0700	20-37	168-34	"	20	1016	78	73	79	3	1	050-5-4	79	7	070	047 - 9.5
0800	20-44	168-25	"	20	1017	79	73	79	3	1	050-5-4	79	7	070	047 - 9.5
0900	20-49	168-18	Partly CLD	20	1017	79	73	79	4	2	070-5-4	79	10	070	047 10
1000	20-53	168-11	"	20	1017	80	73	79	4	2	070-5-4	79	10	070	047 10
1100	21-01	168-03	"	20	1017	80	73	79	4	2	070-5-4	79	10	070	047 10
1200	21-08	167-54	"	20	1017	80	73	79	4	2	070-5-4	79	10	070	047 10
1300	21-14	167-48	FEW CLDS	20	1017	80	73	79	3	2	070-5-4	79	10	060	047 10
1400	21-20	167-41	"	20	1016	80	72	75	3	2	070-5-4	79	10	040	047 10
1500	21-26	167-33	"	20	1016	79	71	75	2	1	070-5-4	79	9	040	047 10
1600	21-33	167-26	"	20	1016	79	71	75	4	3	070-5-4	79	10	050	047 10
1700	21-33	167-19	Partly CLD	20	1016	76	70	82	7	5	070-5-4	79	11	038	088 10
1800	21-34	167-08	Partly CLD	20	1016	77	69	75	6	3	070-5-4	79	12	040	088 10
1900	21-35	166-57	"	20	1017	77	69	75	8	5	070-5-4	79	13	030	088 10
2000	21-35	166-46	"	20	1017	77	69	75	5	3	070-5-6	78	15	030	088 10
2100	21-35	166-36	"	15	1018	76	70	82	7	5	070-5-5	78	10	040	088 9.5
2200	21-36	166-26	"	15	1018	76	70	82	7	5	070-5-5	78	10	040	088 9.5
2300	21-37	166-18	"	15	1018	76	70	82	7	5	070-5-5	78	10	040	088 9.5
2400	21-38	166-07	"	15	1018	76	70	82	7	5	070-5-5	78	10	040	088 9.5

REMARKS:

XRAY

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES;
WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

SI-MNH-955
12-5-63

SUN 23 MAY '65
DATE SAT 22

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUMID %	TL SKY	OPA SKY	SWELL WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	21-37	165-57	FEW CLOS	20	1017	77	71	82	4	3	070-5-5	76	12	030	089 9.5
0200	21-36	165-47	"	20	1017	76	72	87	3	2	070-5-5	76	14	020	089 9.5
0300	21-36	165-37	"	20	1017	77	71	82	3	2	070-5-5	76	11	045	089 9.5
0400	21-37	165-27	"	20	1017	77	71	82	4	3	070-5-5	76	10	050	089 9.5
0500	21-37	165-17	"	20	1018	76	70	82	7	4	070-5-5	76	10	040	" "
0600	21-37	165-07	"	20	1018	76	67	74	4	2	070-5-5	76	12	030	" "
0700	21-37	164-67	"	20	1019	76	69	78	3	1	070-5-5	76	13	030	" "
0800	21-37	164-48	"	20	1019	76	69	78	3	1	070-5-5	76	13	030	" 9.0
0900	21-35	164-42	PARTY CL	20	1019	79	71	79	4	2	050-5-5	77	10	040	088
1000	21-33	164-38	"	20	1019	79	71	79	4	2	050-5-5	77	10	040	08800 9.0
1100	21-33	164-38	"	20	1019	79	71	79	4	2	050-5-5	77	10	040	08800 9.0
1200	21-34	164-37	"	20	1019	79	71	79	4	2	050-5-5	77	10	040	08800 9.0
1300	21-35	164-34	CLOUDY	20	1019	80	73	79	7	5	050-5-5	77	10	035	088 9.0
1400	21-35	164-27	CLOUDY	20	1019	82	74	76	9	7	050-5-5	77	10	030	088 9.0
1500	21-37	164-19	RAIN	5	1019	79	72	79	10	10	050-5-5	77	14	035	088 9.0
1600	21-38	164-11	DRY CL	15	1019	79	72	79	10	9	050-5-5	79	12	035	088 9.0
1700	21-38	164-04	"	15	1019	76	72	82	10	10	050-5-5	79	13	040	" "
1800	21-38	163-54	DRY CL	15	1019	75	71	87	10	9	050-5-5	79	17	050	" "
1900	21-38	163-46	"	15	1019	75	71	87	10	9	050-5-5	79	18	070	" "
2000	21-39	163-36	"	15	1020	73	70	91	10	10	050-5-5	79	9	080	" "
2100	21-39	163-26	PARTY CL	15	1020	76	72	87	5	4	050-5-5	79	10	080	088 9.0
2200	21-39	163-16	"	15	1020	76	72	87	5	4	050-5-5	79	10	080	088 9.0
2300	21-40	163-07	"	15	1020	76	72	87	5	4	050-5-5	79	8	080	088 9.0
2400	21-40	163-00	"	15	1020	76	72	87	5	4	050-5-5	79	8	080	088 9.0

REMARKS:

XRAY UNTIL 2300

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES;
WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

SI-MNH-955
12-5-63

DATE MONDAY 24 MAY 1965

TIME	LAT	LONG	W	PRES	WEA	VIS	SLP	DRY B	DEW PT	HUMID	TL SKY	OPA SKY	SWELL WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	21-39	162-50		FEW CLDS	15	1019	76	70	82	4	3	3	050-5-5	76	12	060	088-9.0
0200	21-40	162-42		FEW CLDS	20	1018	76	70	82	3	3	3	050-5-5	76	16	050	088-9.0
0300	21-41	162-30		"	20	1018	76	70	82	3	2	2	050-5-5	76	12	060	088-9.0
0400	21-41	162-19		"	20	1018	76	70	82	3	2	2	050-5-5	76	11	060	088-9.0
0500	21-41	162-09		0500ft	20	1018	78	70	81	9	7	7	050-5-5	76	15	070	088-9.5
0600	21-42	162-00		11/1012	20	1018	78	70	81	90	9	9	050-5-5	76	17	070	088-9.5
0700	21-42	161-51		PLY CLDS	20	1019	76	72	87	7	5	5	050-5-5	76	13	045	088-9.5
0800	21-42	161-40		"	20	1019	76	72	87	7	5	5	050-5-5	76	13	045	088-9.5
0900	21-43	161-31		FEW CLDS	20	1019	78	68	79	4	3	3	050-5-5	76	10	080	088-9.5
1000	21-43	161-22		FEW CLDS	20	1019	78	68	79	3	2	2	050-5-5	76	10	090	088-9.5
1100	21-44	161-12		"	20	1019	79	71	75	3	2	2	050-5-5	76	11	095	088-9.5
1200	21-44	161-05		"	20	1019	79	71	75	3	2	2	050-5-5	76	10	090	090-9.5
1300	21-45	160-57		"	20	1019	81	71	72	3	2	2	050-5-5	76	9	100	090-9.5
1400	21-45	160-48		"	20	1019	81	71	72	3	2	2	050-5-5	76	10	100	090-9.5
1500	21-45	160-44		"	20	1018	81	71	72	2	1	1	050-5-5	76	9	110	090-9.5
1600	21-46	160-35		"	20	1018	81	71	72	2	1	1	050-5-5	76	9	095	090-9.5
1700	21-47	160-28		"	20	1018	86	72	75	2	0	0	Cont.	76	10	075	103-10
1800	21-41	160-12		"	20	1018	79	72	79	5	3	3	050-5-5	76	13	080	103-10.5
1900	21-39	160-02		"	20	1018	79	72	79	7	5	5	050-5-5	76	15	088	103-10.5
2000	21-37	159-51		"	20	1019	78	72	83	7	5	5	050-5-5	76	15	080	103-10
2100	21-34	159-40		"	20	1020	78	72	83	3	2	2	090-5-4	76	12	090	103-10
2200	21-32	159-29		"	20	1020	78	72	83	3	2	2	090-5-4	76	12	090	103-10
2300	21-30	159-19		"	20	1020	78	72	83	3	2	2	090-5-4	76	12	090	103-10
2400	21-28	159-08		"	20	1020	78	72	83	3	2	2	090-5-4	76	12	090	103-10

REMARKS:

AFTER 0500

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES;
WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

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